upvel
LEVEL UP

User Manual

UR-101AU

ADSL/ADSL2+ Firewall Modem Router

INDEX

1.0 About This Manual 3
1.1 Document Objectives 3
1.2 Product Overview 3
1.3 Product Description 3
2.0 Specification 4
2.1 LED Meaning 5
2.2 Back Panel Connectors 6
3.0 Hardware Requirements 7
3.1 Setting up the Hardware Environment 7
3.2 Powering on ADSL2+ Combo Router 7
5.0 Configuration Procedures 9
7.0 Internet Configuration via Ethernet Port 17
7.0 Internet Configuration via USB Port 21
8.0 Configuration of IPTV connection 63
9.0 Technology Glossary 74
10.0 Introduction of the Web Configuration 77
10.1 Web Configuration Overview 77
10.2 Accessing ADSL2+ Combo Router Web Configuration 77
11.1 Universal Plug and Play Overview 103
11.2 How do I know if I'm using UPnP? 103
11.3 NAT Traversal 103
11.4 Cautions with UPnP 103
11.5 Configuring UPnP 104
11.6 Installing UPnP in Windows Example 105
11.7 Installing UPnP in Windows Me 105
11.8 Installing UPnP in Windows XP 106
11.9 Using UPnP in Windows XP Example 107
11.10 Auto-discover Your UPnP-enabled Network Device 107
12.0 Web Configuration Easy Access 109
13.0 Troubleshooting 111
A.1 Using LEDs to Diagnose Problems 111
A.1.1 Power LED 111
A.1.2 LAN LED 111
A.1.3 DSL LED (ACT & LINK) 111
A.2 Telnet 112
A.3 Web Configuration 112
A.4 Login Username and Password 113
A.5 LAN Interface 113
A.6 WAN Interface 113
A.7 Internet Access 114
A.8 Remote Node Connection 114

1.0 About This Manual

This manual is developed for users, system managers, network managers, and contains installation, configuration, and operation of the ADSL2+ Combo Router.

1.1 Document Objectives

The objectives of this manual are to describe all the initial hardware installation and basic configuration procedure for the ADSL2+ Combo Router. After completing the installation and basic configuration procedures, you can then use the appropriate contents to more completely configure your system.

1.2 Product Overview

This section provides an overview of the ADSL2+ Combo Router. It also describes the general applications available with the ADSL2+ Combo Router.

Note! This section documents general product features available in the ADSL2+ Combo Router product series. Please refer to the release notes for a current list of upgraded hardware and software specifications.

1.3 Product Description

ADSL2+ Combo Router is a low cost, high performance and high-speed device that provides a full rate ADSL2+ Combo Router with the superb reliability and a complete solution for home and office router. ADSL2+ Combo Router can have a maximum downstream data rate of up to 24Mbps and an upstream of up to 1Mbps. When configured as a DHCP server, it will assign IP address to every connected PC and acts as the only externally recognized Internet device on your local area network. With build-in NAT, ADSL2+ Combo Router serves as an Internet firewall, protecting your network from being accessed by outside users. You can safely enjoy the new generation broadband Internet with ADSL2+ Combo Router.

2.0 Specification

ADSL Standards supported

- Compliant to ITU-T G.992.1 (G.dmt), G.992.2 (G.lite), G.992.3 (ADSL2), G.992.4 (splitterless ADSL2), G.992.5 (ADSL2+) for Annex A
- G.lite (G.992.2) with line rate support of up to 1.5Mbps downstream and 512Kbps upstream.
- Supports Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt (G.992.1); G.994.1 and G.996.1(for ISDN only); G.991.1;G.lite (G992.2)).
- Supports OAM F4/F5 loop-back, AIS and RDI OAM cells.
- ATM Forum UNI 3.1/4.0 PVC.
- Supports up to 8 PVCs (UBR, CBR, VBR).
- Multiple Protocols over AAL5 (RFC 1483).
- PPP over AAL5 (RFC 2364).
- PPP over Ethernet (RFC 2516).

Network Address Translation (NAT)

Network Address Translation (NAT) allows the translation of an Internet protocol address used within one network (for example a private IP address used in a local network) to a different IP address known within another network (for example a public IP address used on the Internet).

Universal Plug and Play (UPnP)

Using the standard TCP/IP protocol, the ADSL2+ Combo Router and other UPnP enabled devices can dynamically join a network, obtain an IP address and convey its capabilities to other devices on the network.

10/100M Auto-negotiation Ethernet/Fast Ethernet Interface

This auto-negotiation feature allows the ADSL2+ Combo Router to detect the speed of incoming transmissions and adjust appropriately without manual intervention. It allows data transfer of either 10 Mbps or 100 Mbps in either half-duplex or full-duplex mode depending on your Ethernet network.

Dynamic DNS Support

With Dynamic DNS support, you can have a static hostname alias for a dynamic IP address,

Multiple PVC (Permanent Virtual Circuits) Support

Your ADSL2+ Combo Router supports up to 8 PVC's.

DHCP Support

DHCP (Dynamic Host Configuration Protocol) allows individual clients (computers) to obtain TCP/IP configuration at start-up from a centralized DHCP server. The ADSL2+ Combo Router has built-in DHCP server capability enabled by default. It can assign IP addresses, an IP default gateway and DNS servers to DHCP clients. The ADSL2+ Combo Router can now also act as a surrogate DHCP server (DHCP Relay) where it relays IP address assignment from the actual real DHCP server to the clients.

2.1 LED Meaning

Your ADSL2+ Combo Router has indicator lights. Please see below for an explanation of the function of each indicator light.

Power **Power indicator**

ETH **Ethernet Active indicator**

DSL **ADSL Link indicator**

Internet **Internet Active indicator**

USB **USB active indicator**

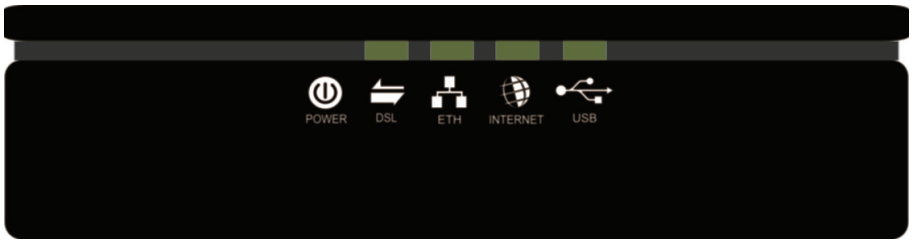


Table 1. LED function

Label	Color	On	Flash	Off
Power	Green	Ready	Not Ready	Power Off
ETH	Green	Ethernet Connected	Transmit / Receive Data	Ethernet Disconnected
DSL	Green	Connect to DSLAM	Disconnect to DSLAM	N/A
Internet	Green	Connect to Internet	Transmit / Receive Data	Disconnect to Internet
USB	Green	USB Connected	Transmit / Receive Data	USB Disconnected

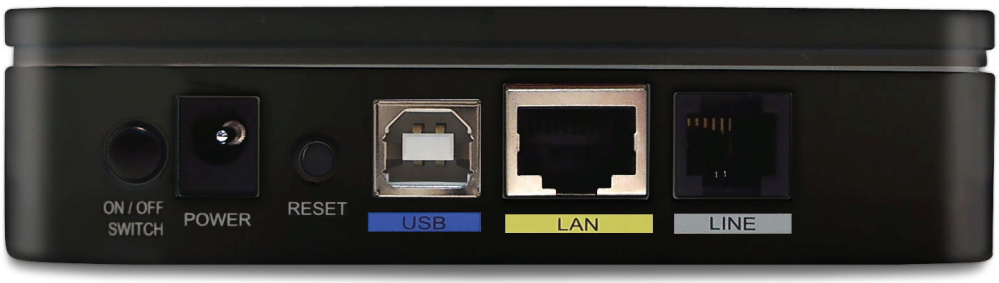
2.2 Back Panel Connectors

Table 2 shows the function of each connector and switch of the ADSL2+ Combo Router's rear panel. Figure 1. illustrate the connectors / Figure 2. illustrate the Power Switch..

Table 2. Function / Description of Connectors

Connector	Description
SWITCH	Power Switch, which used to ON / OFF ADSL2+ Combo Router
POWER	Connects to your ADSL router 12V AC power adaptor
RESET	Reset bottom, RESET the ADSL2+ router to its default settings
USB	USB Jack (USB interface) connects to your computer
LAN	RJ-45 Jack (Ethernet Cable) connects to your PC, or HUB
LINE	Connects to your ADSL2+ line – for ADSL2+ Line input

Figure1. Rear View of the ADSL2+ Combo Router



2.3 Factory Default Settings

Before configuration, please refer to following default settings,

Web interface:

Username: admin
Password: 1234

LAN IP Settings:

IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

DHCP:

DHCP Server: Enable

3.0 Hardware Requirements

To use ADSL2+ Combo Router, please have following hardware / accessories ready.

A PC with Pre-installed Ethernet Adapter (Required)
12Vac power adaptor (Included in the package)
RJ-45 Ethernet cable (Included in the package)
RJ-11cable (Included in the package)

3.1 Setting up the Hardware Environment

Note! Be sure that you are well insulated from any power source to avoid electricity shock.

Please kindly refer to chapter 4.0 “Installation & Setup”

3.2 Powering on ADSL2+ Combo Router

Note! Use only the manufacturer-approved power supply that shipped with the ADSL2+ Combo Router.

1. Connect the power to the ADSL2+ Combo Router by plugging the power supply into an appropriate electrical outlet.

2. If the Power LED is off, refer to “Troubleshooting” for information.

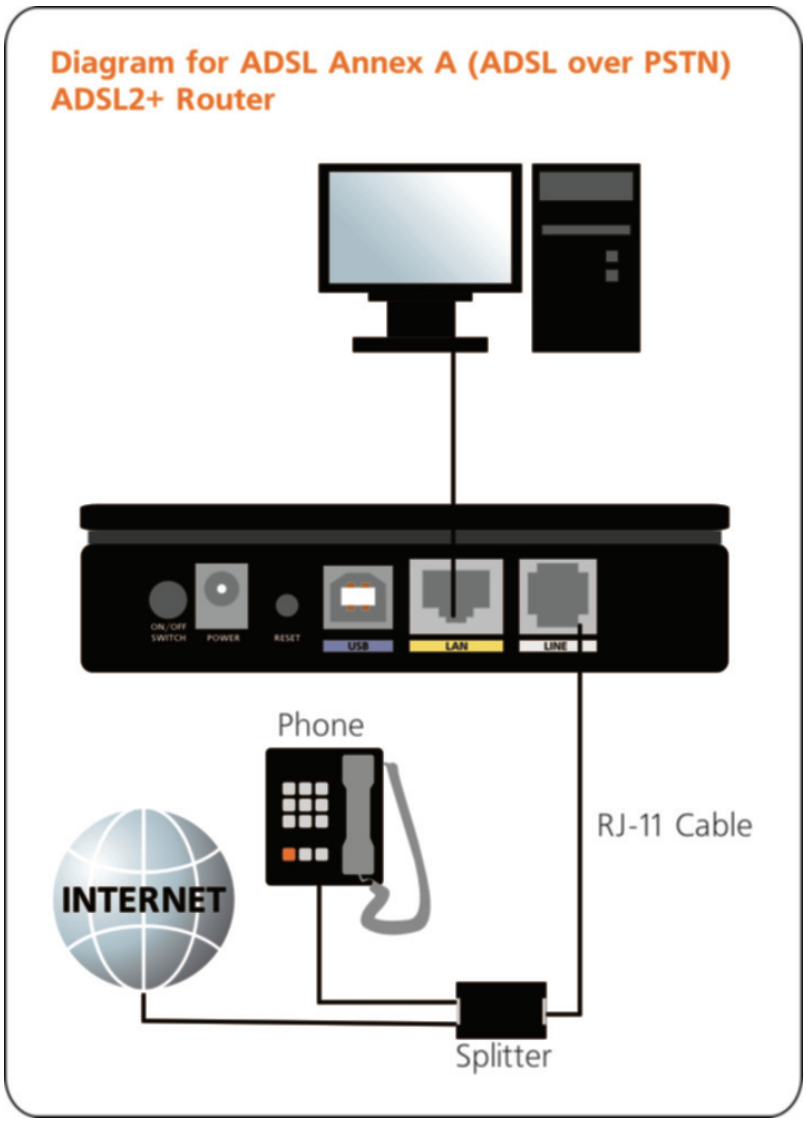
Please kindly refer to chapter 4.0 “Installation & Setup”

4.0 Installation & Setup

Follow each STEP carefully and only go to the next step once you have completed the previous STEP.

Connection of ADSL2+ Combo Router

If you have a PSTN telephone line (normal analog line) Connect the router as shown below:



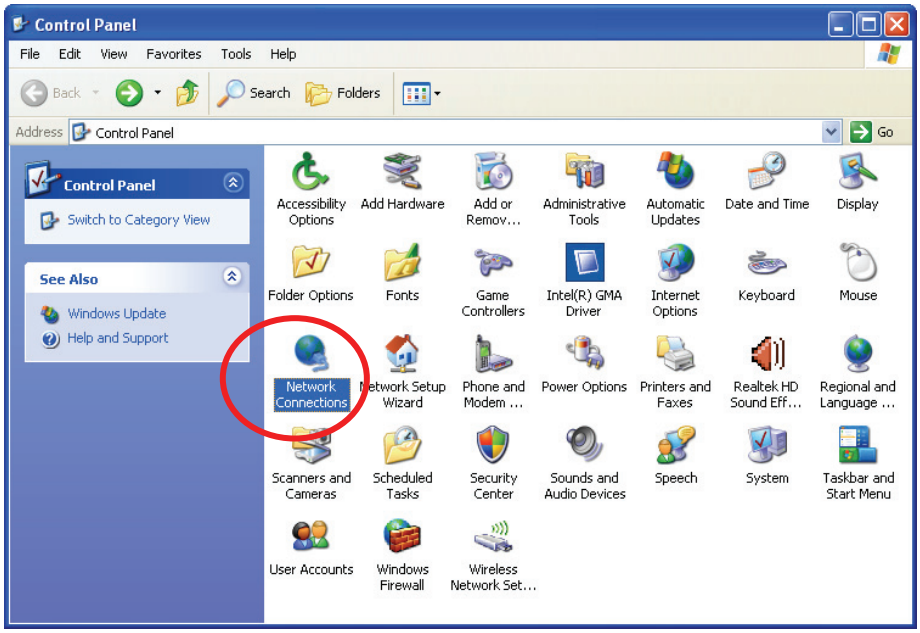
1. Connect the supplied RJ45 Ethernet cable from your PC's Ethernet port to ADSL2+ Combo Router's "**LAN**" Port.
2. Connect the supplied RJ11 telephone cable from your home's telephone jack to the "**LINE**" port of the supplied ATF085A1R splitter. Connect the other supplied RJ11 telephone cable to the "**MODEM**" port of the splitter and connect the other end of this cable to the "**LINE**" port of your ADSL2+ Combo Router.
3. Connect a RJ11 telephone cable to the "**PHONE**" port of the splitter and connect the other end to your telephone.
4. Connect the power adapter to the power inlet **"POWER"** of the ADSL2+Combo Router and turn the "**ON/OFF SWITCH"** switch of your ADSL2+ Combo Router on.

5.0 Configuration Procedures

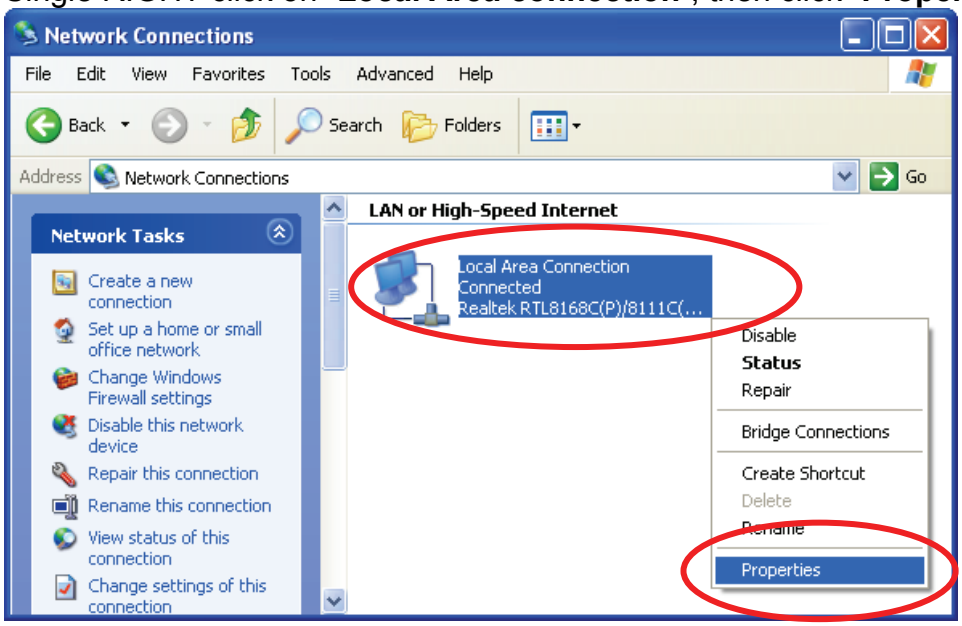
Before starting the ADSL2+ Combo Router configuration, please kindly configure the PC computer as below, to have automatic IP address / DNS Server.

For Windows 98SE / ME / 2000 / XP

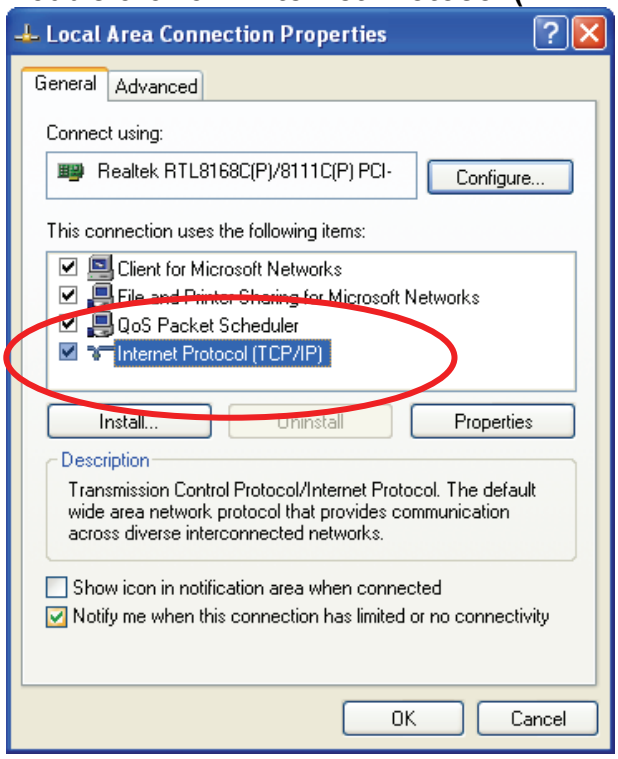
1. Click on "**Start**" -> "**Control Panel**" (**in Classic View**). In the Control Panel, double click on "**Network Connections**" to continue.



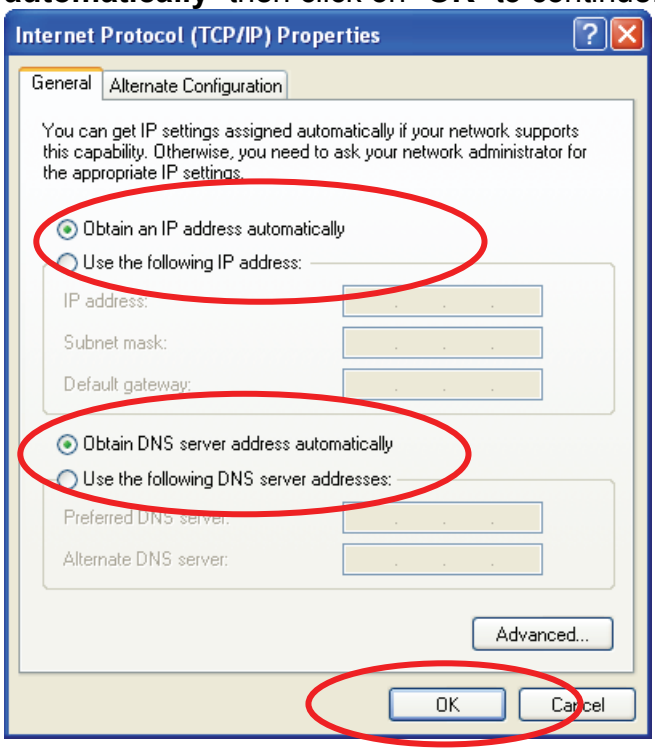
2. Single RIGHT click on "**Local Area connection**", then click "**Properties**".



3. Double click on **"Internet Protocol (TCP/ IP)"**.



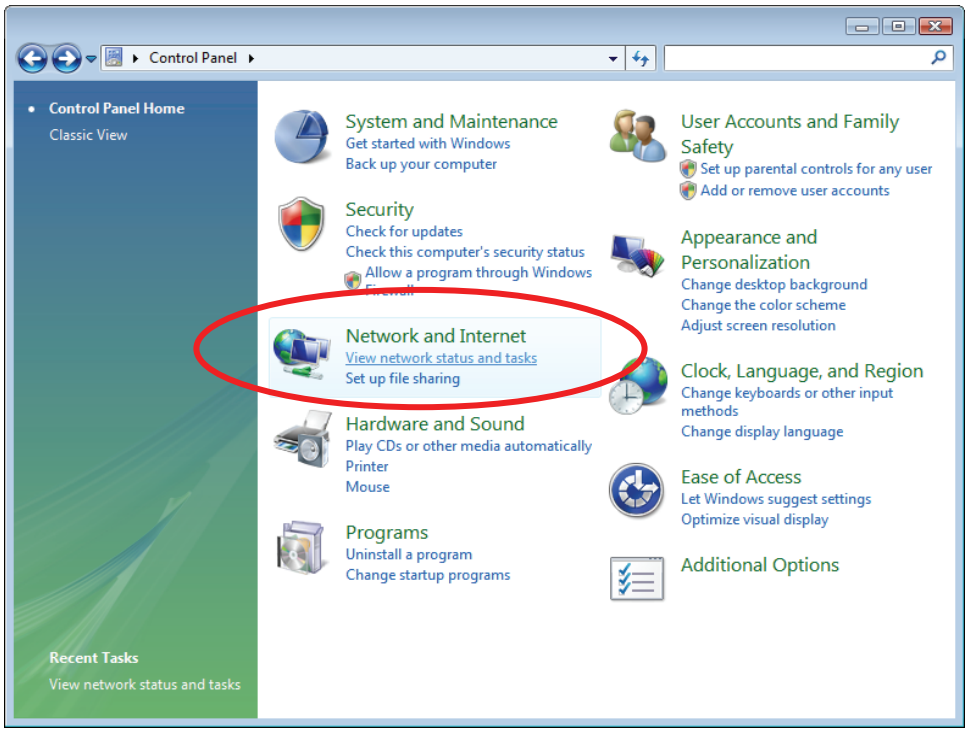
4. Check "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**" then click on "**OK**" to continue.


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

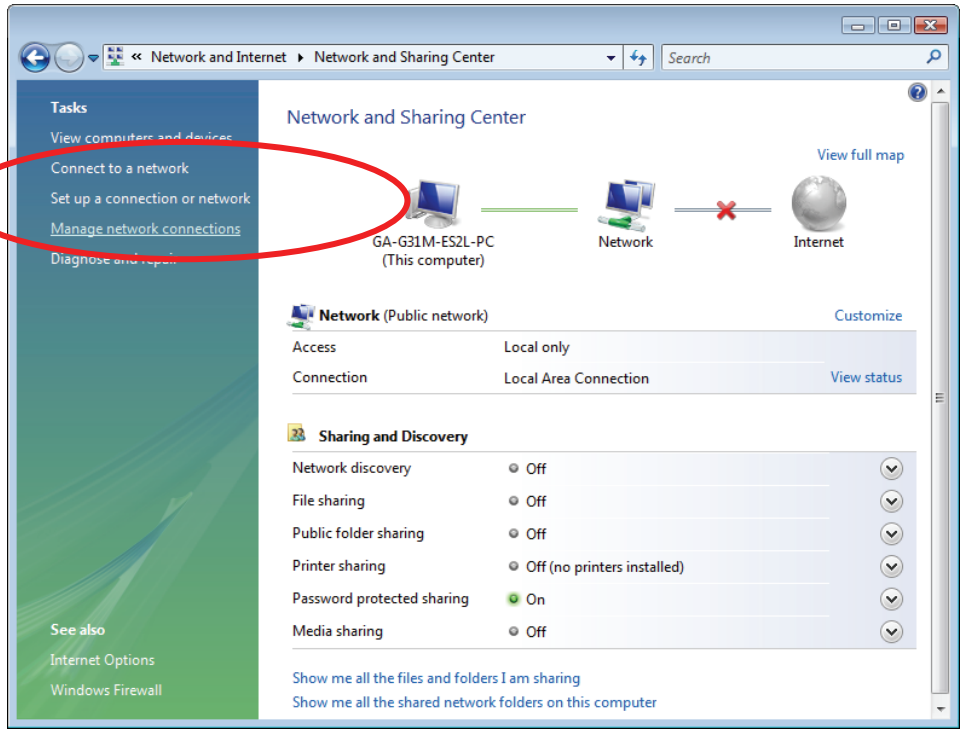
5. Click **"Show icon in notification area when connected"** (see screen image in 3. above) then Click on **"OK"** to complete the setup procedures.

For Windows Vista-32/64

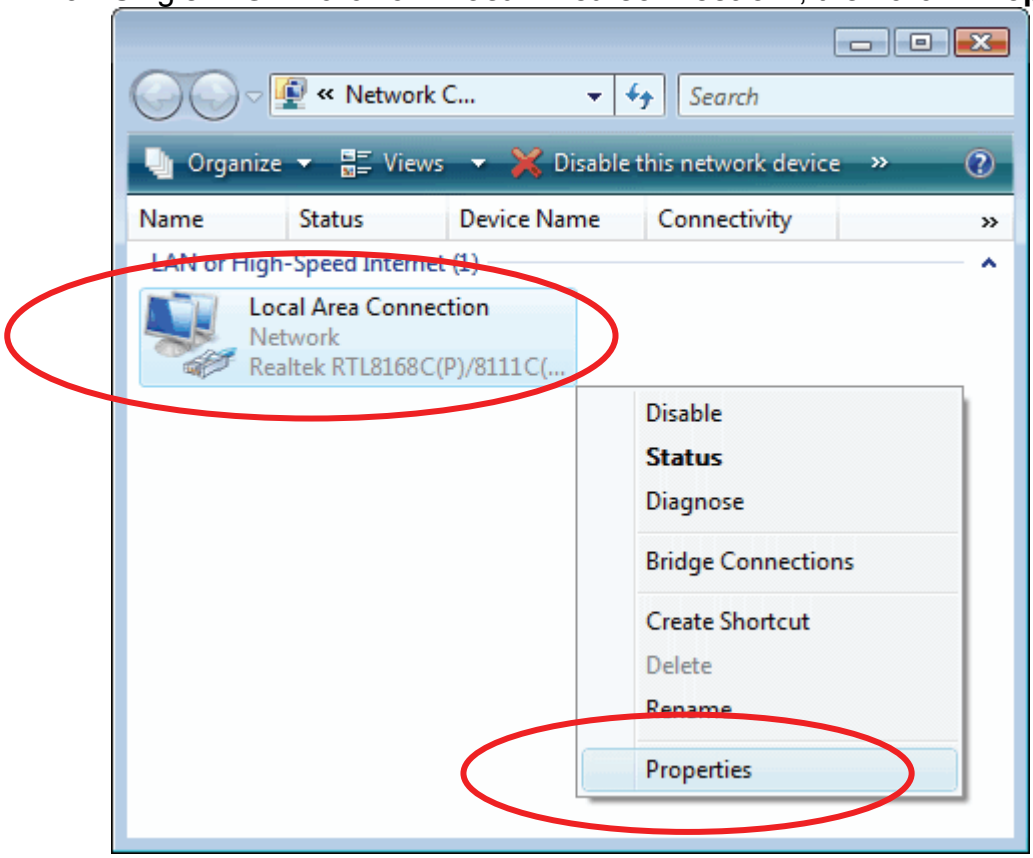
1. Click on "**Start**" -> "**Control Panel**" -> "**View network status and tasks**".



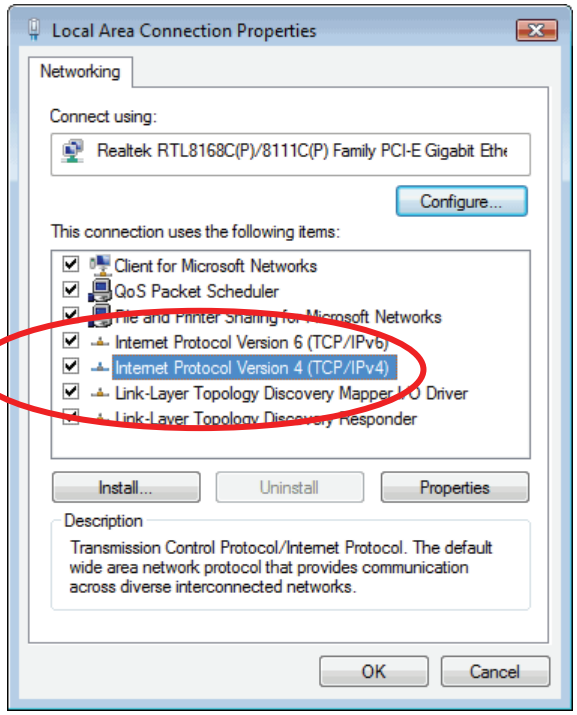
2. In the Manage network connections, click on "**Manage network connections**" to continue.



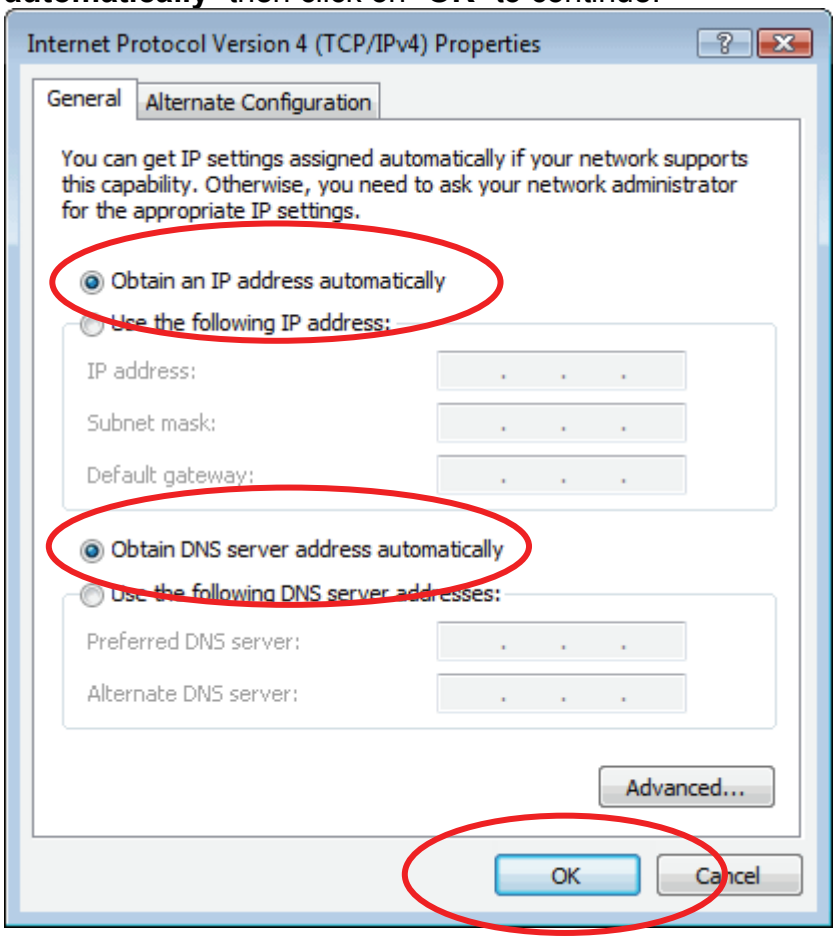
3. Single RIGHT click on “**Local Area connection**", then click "**Properties**".



4. The screen will display the information “**User Account Control**” and click “**Continue**” to continue.
5. Double click on "**Internet Protocol Version 4 (TCP/IPv4)**".

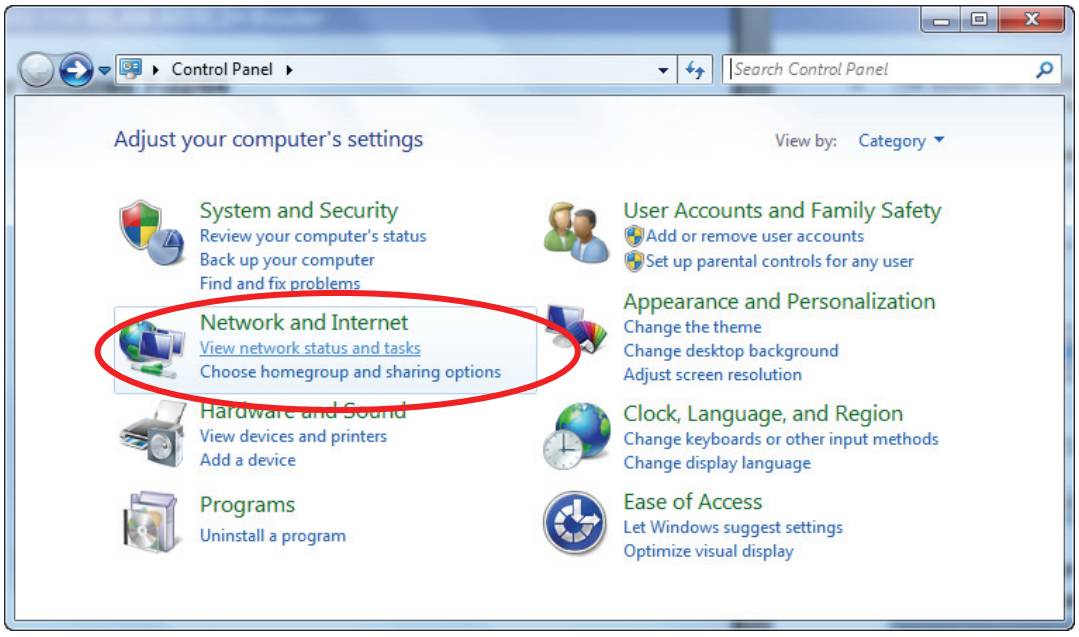


6. Check "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**" then click on "**OK**" to continue.

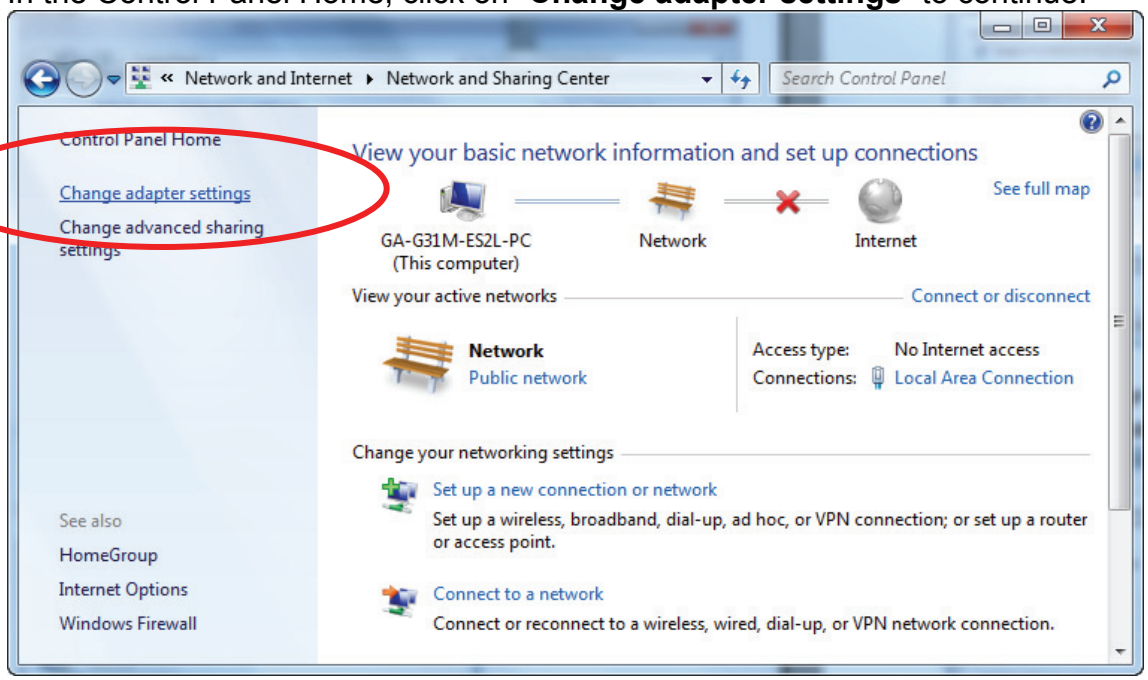

Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

For Windows 7-32/64

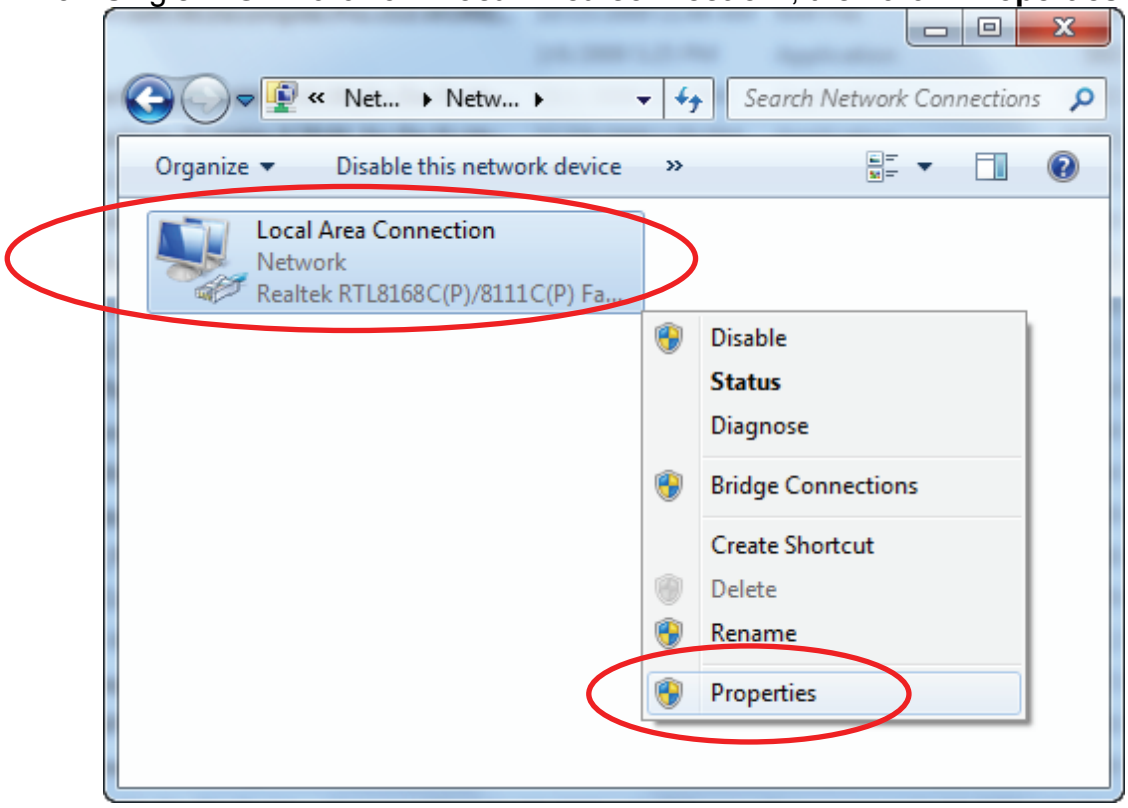
1. Click on "**Start**" -> "**Control Panel**" (**in Category View**) -> "**View network status and tasks**".



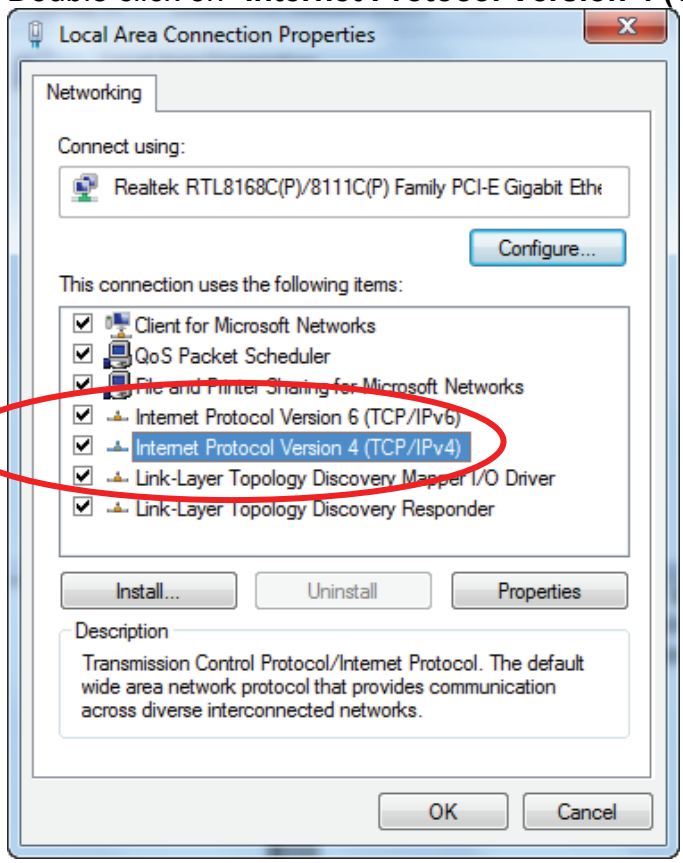
2. In the Control Panel Home, click on "**Change adapter settings**" to continue.


« Network and Internet ▸ Network and Sharing Center
Search Control Panel
Control Panel Home
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
See full map
GA-G31M-ES2L-PC
(This computer)
Network
Internet
View your active networks
Connect or disconnect
Network
Public network
Access type: No Internet access
Connections: Local Area Connection
Change your networking settings
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.
Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.
See also
HomeGroup
Internet Options
Windows Firewall

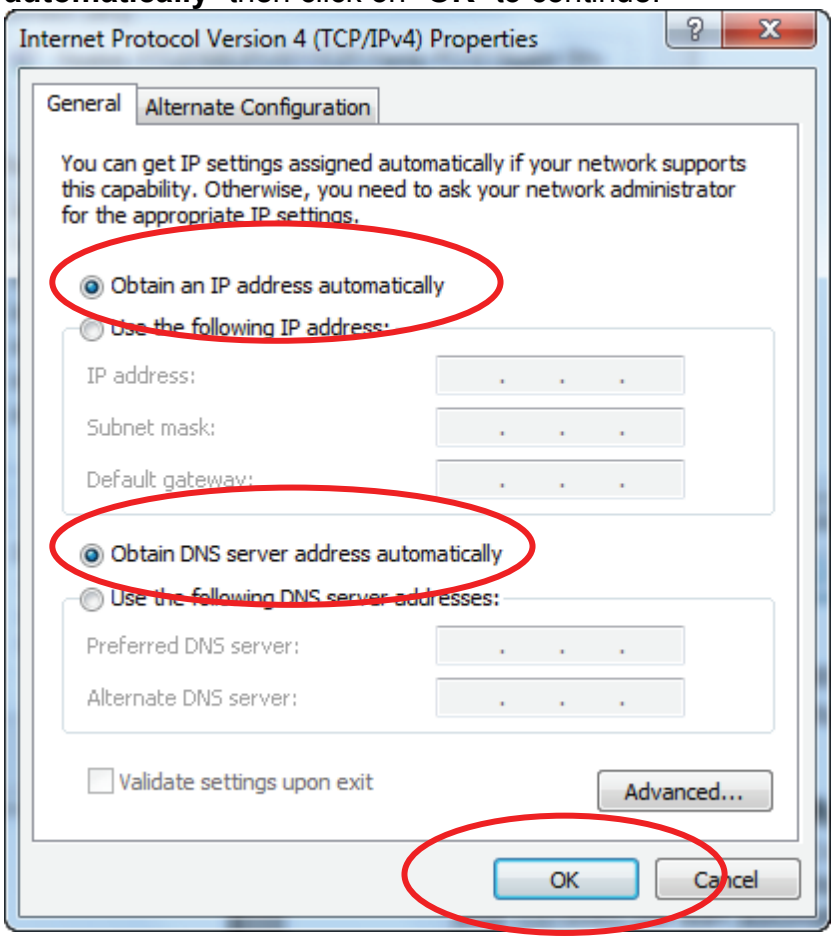
3. Single RIGHT click on “**Local Area connection**", then click "**Properties**".



4. Double click on "**Internet Protocol Version 4 (TCP/IPv4)**".



5. Check "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**" then click on "**OK**" to continue.


Internet Protocol Version 4 (TCP/IPv4) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

6.0 Internet Configuration via Ethernet Port

1. Please insert the supplied CD into your CD-ROM drive.

2. The CD should auto-start, displaying the window shown in 3. below. If your CD does not start automatically, go to Windows Explorer, Select your CD drive and double click “**setup.exe**”.

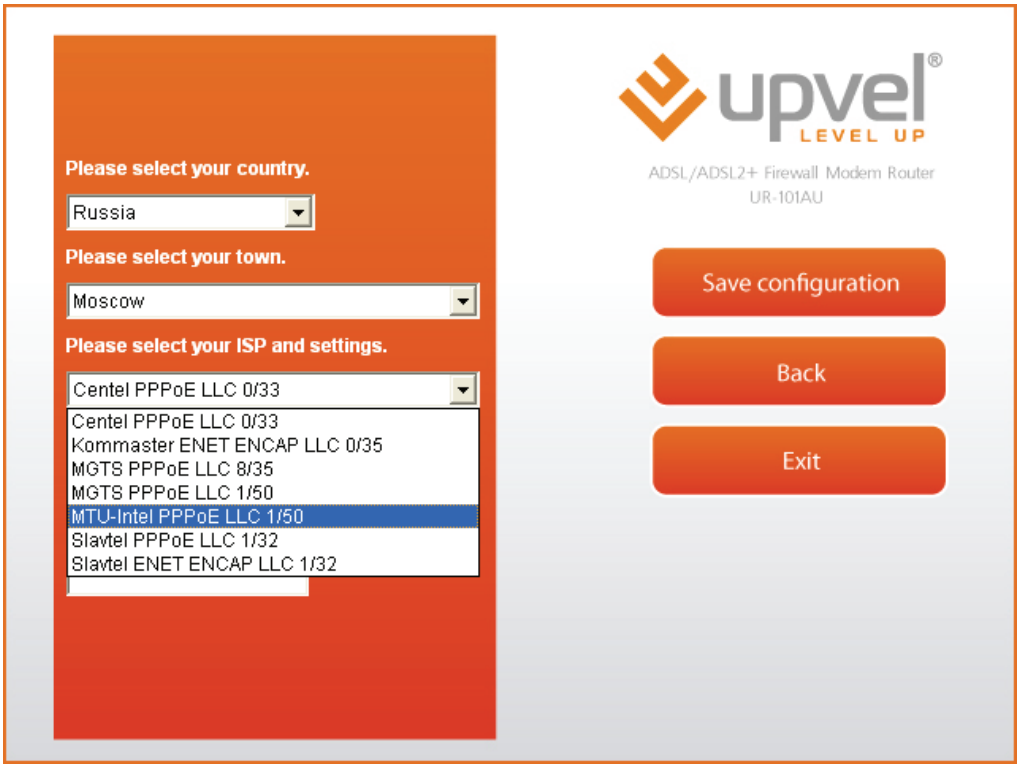
3. Please choose your language and then click button to continue.

4. To configure the device, please click “**Configuration**”.

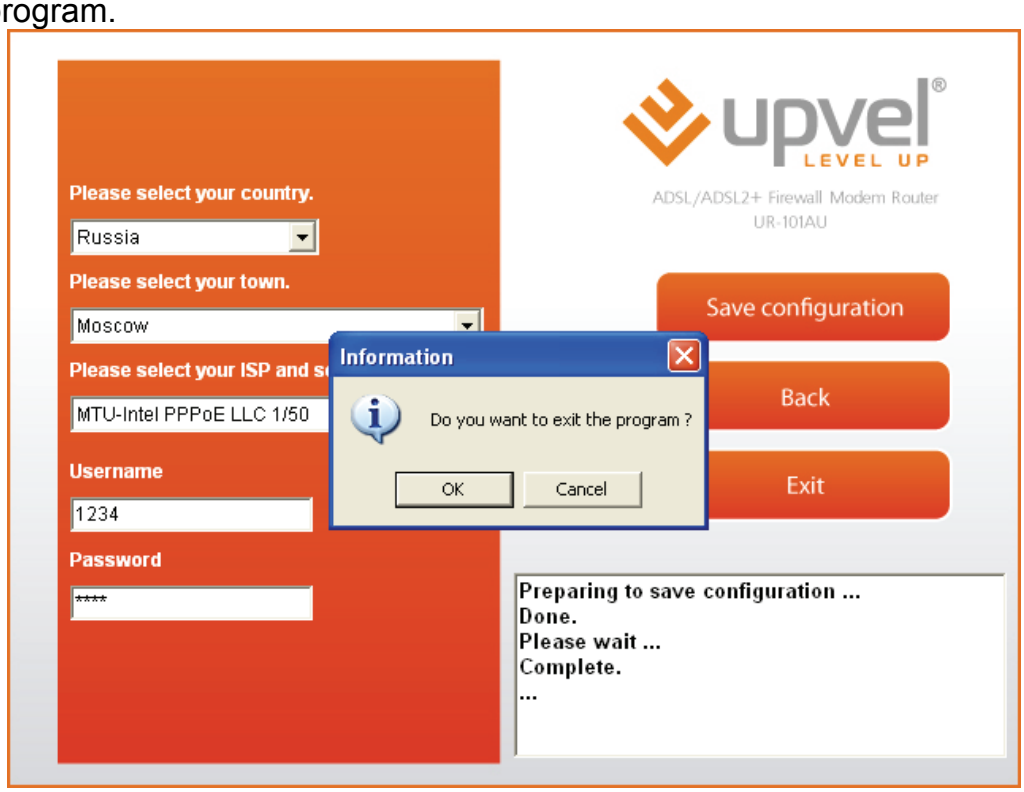
5. Please click “**Internet Configuration**” button to continue.

6. Please click “**Internet connection**” button to continue.

7. Select your country, town, ISP and settings your ISP (Internet Services Provider) provided, and enter your required settings. Then press “**Save Configuration**”. Please wait for about 60 seconds.



8. When the **“Information”** screen pop-up, please click **“OK”** button to exit the program.



You can now access the Internet!

7.0 Internet Configuration via USB Port

For Windows 98SE / ME / 2000 / XP

1. Make sure to power on ADSL2+ Combo Router.

2. Make sure that you have disconnected the Ethernet RJ45 cable. Please connect one end of the supplied USB cable to ADSL2+ Combo Router, and connect the other end of USB cable to the Computer.

3. Once USB cable connected to ADSL2+ Combo Router and the following will appear on screen.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Please click "**Cancel**" to eliminate this "**Welcome to the Found New Hardware Wizard**".

4. Please insert the supplied CD into your CD-ROM drive.

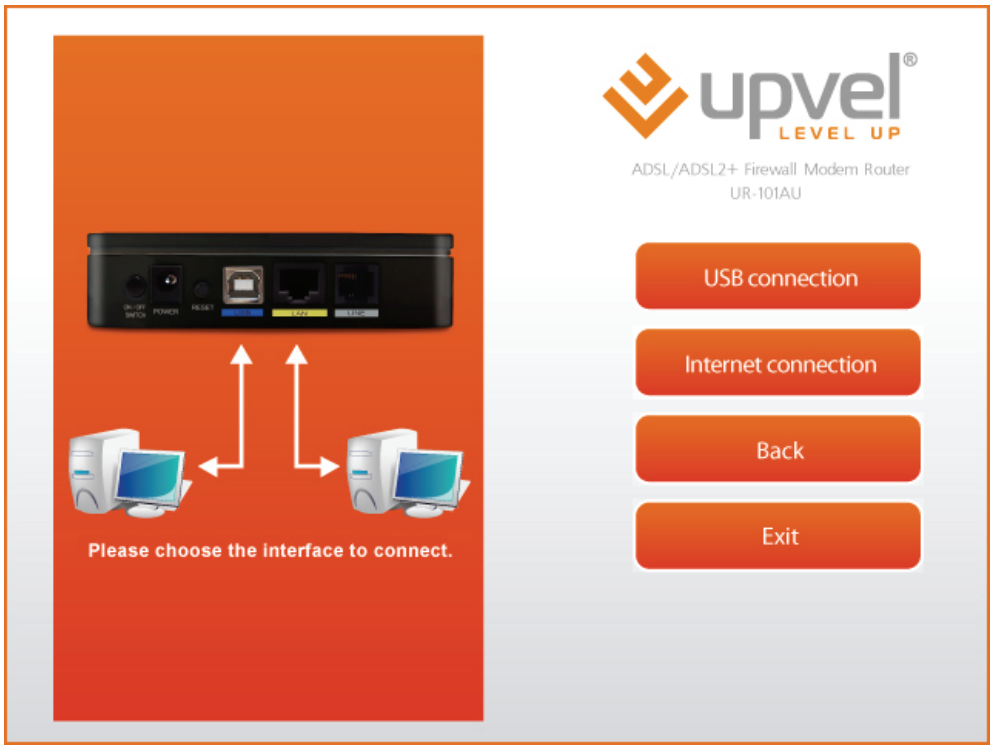
5. The CD should auto-start, displaying the window shown in 6. below. If your CD does not start automatically, go to Windows Explorer, Select your CD drive and click "**setup.exe**"

6. Please choose your language and then click button to continue.

7. To configure the device, please click "**Configuration**".

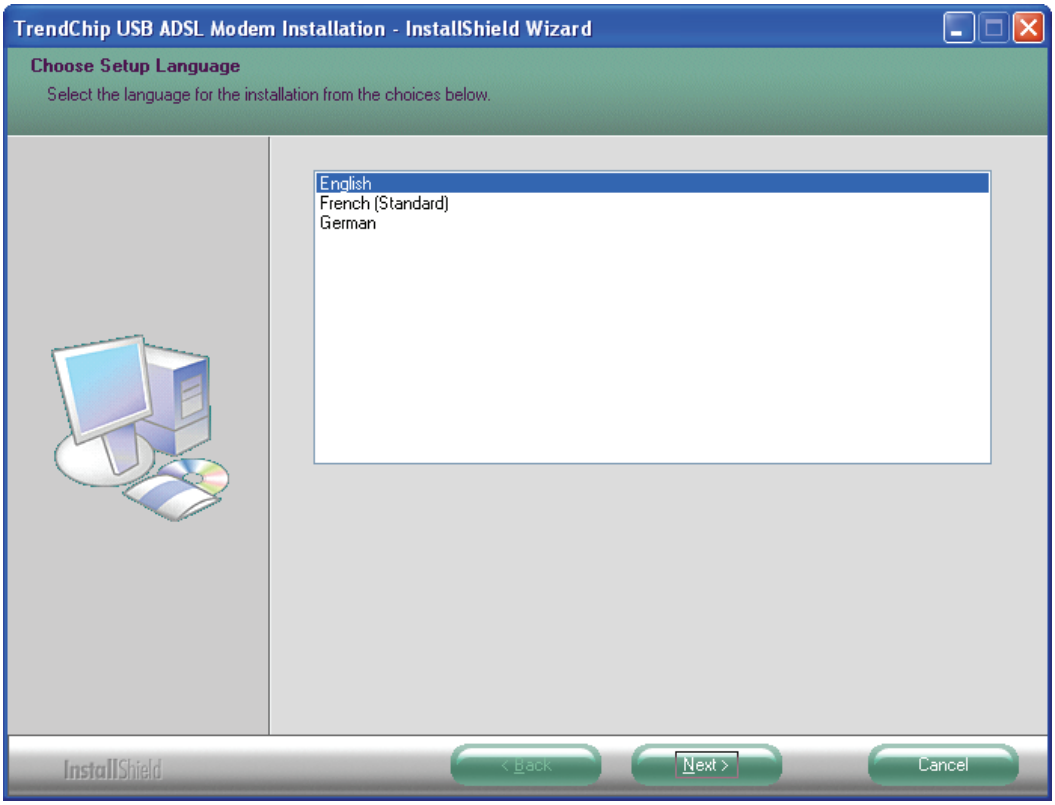
8. Please click **“Internet Configuration”** to continue.

9. Please click **“USB connection”** to continue.

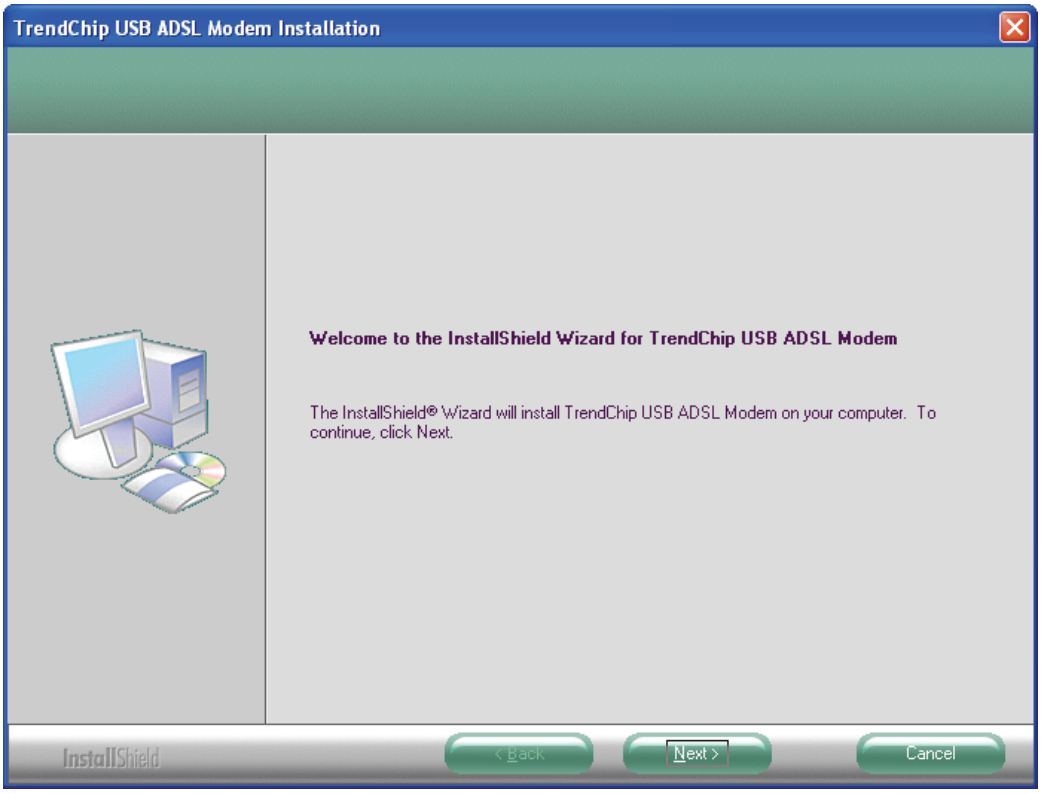


10. Please click **"USB Driver Installation"** and wait for about 1 minute.

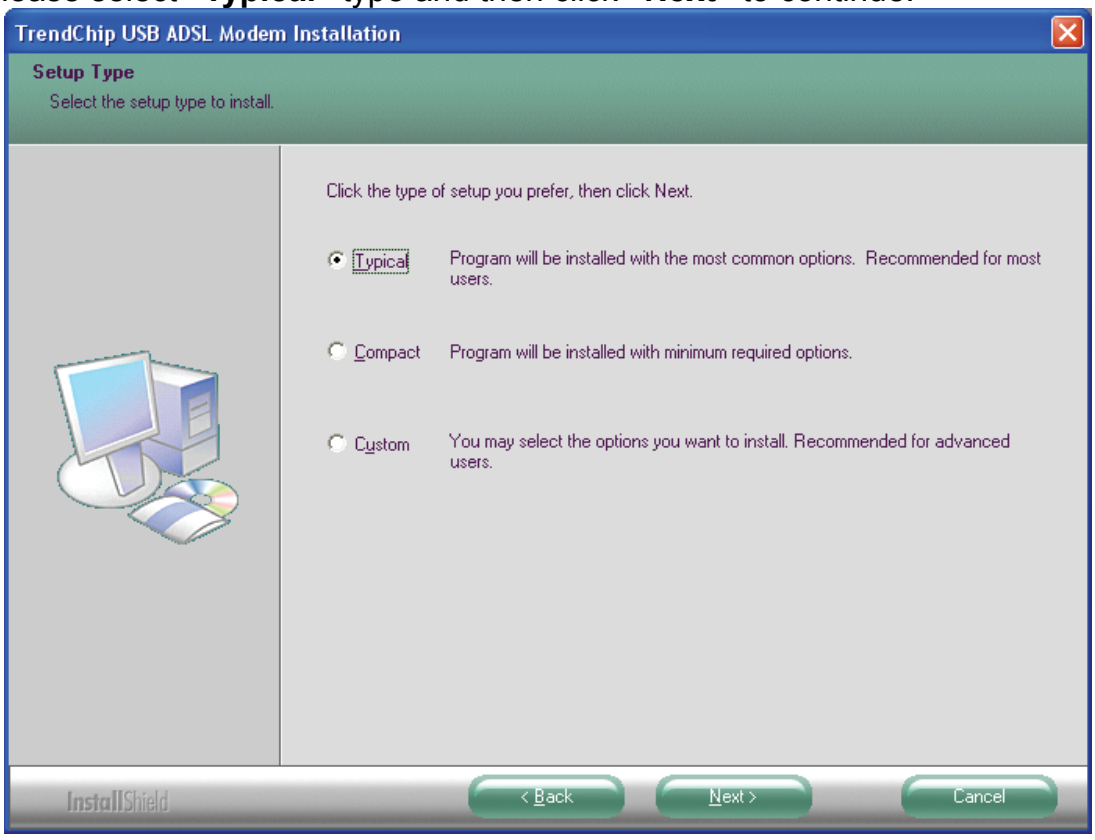
11. Please choose your language and click **"Next "to** continue.



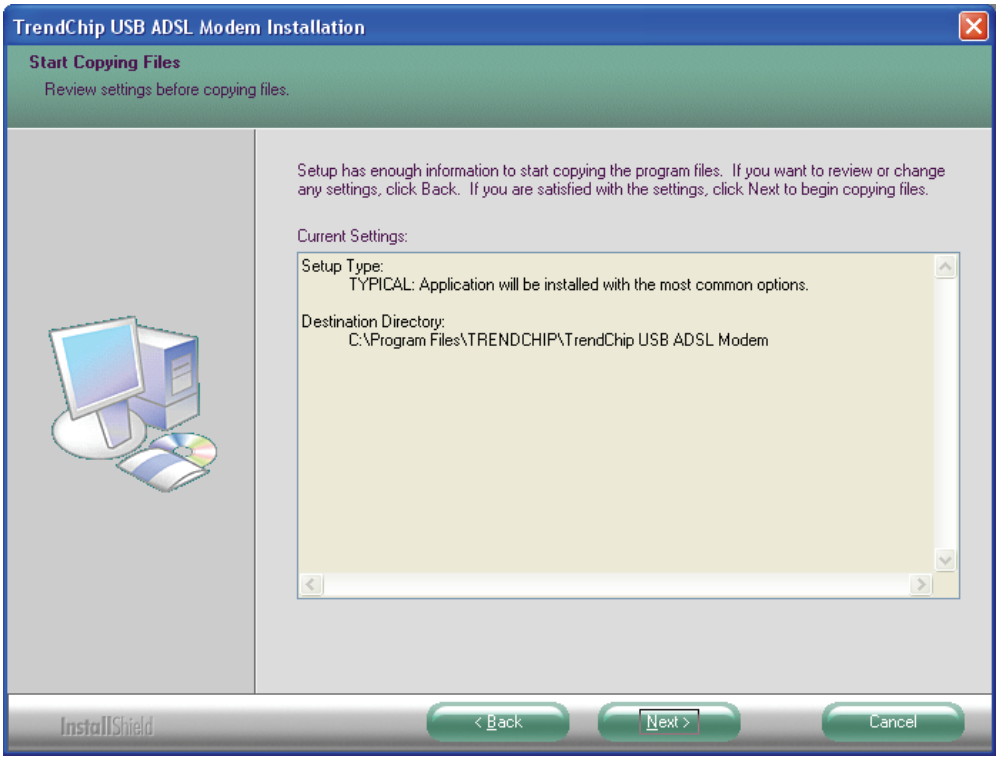
12. Please click **"Next"** to continue.


TrendChip USB ADSL Modem Installation
Welcome to the InstallShield Wizard for TrendChip USB ADSL Modem
The InstallShield® Wizard will install TrendChip USB ADSL Modem on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

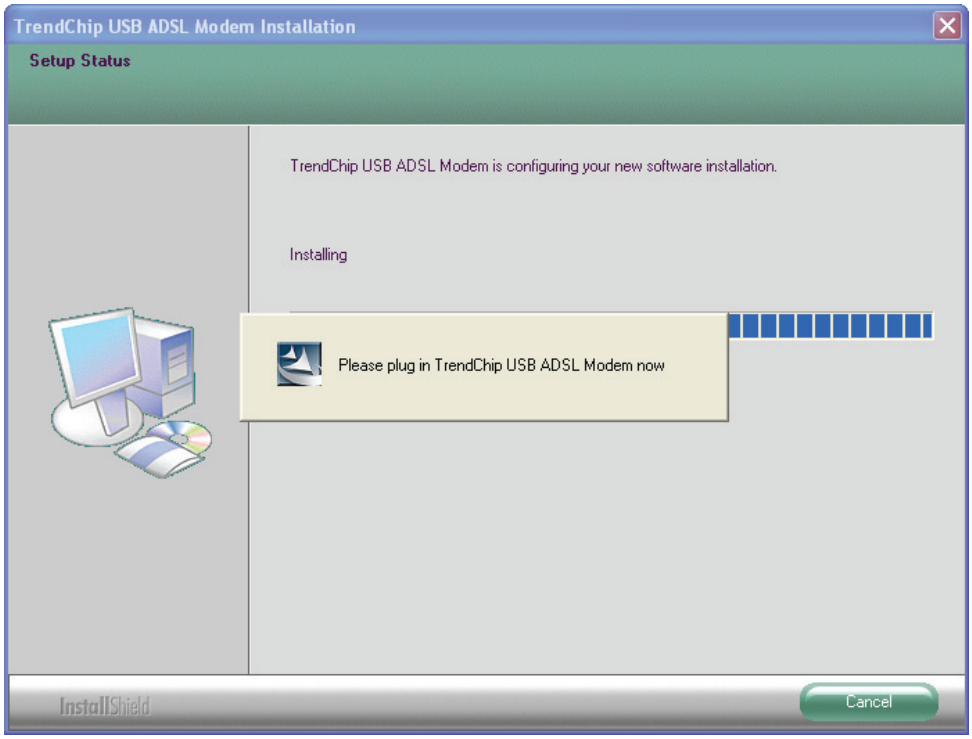
13. Please select **"Typical"** type and then click **"Next"** to continue.


TrendChip USB ADSL Modem Installation
Setup Type
Select the setup type to install.
Click the type of setup you prefer, then click Next.
Typical
Program will be installed with the most common options. Recommended for most users.
Compact
Program will be installed with minimum required options.
Custom
You may select the options you want to install. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

14. Please click **"Next"** to continue.

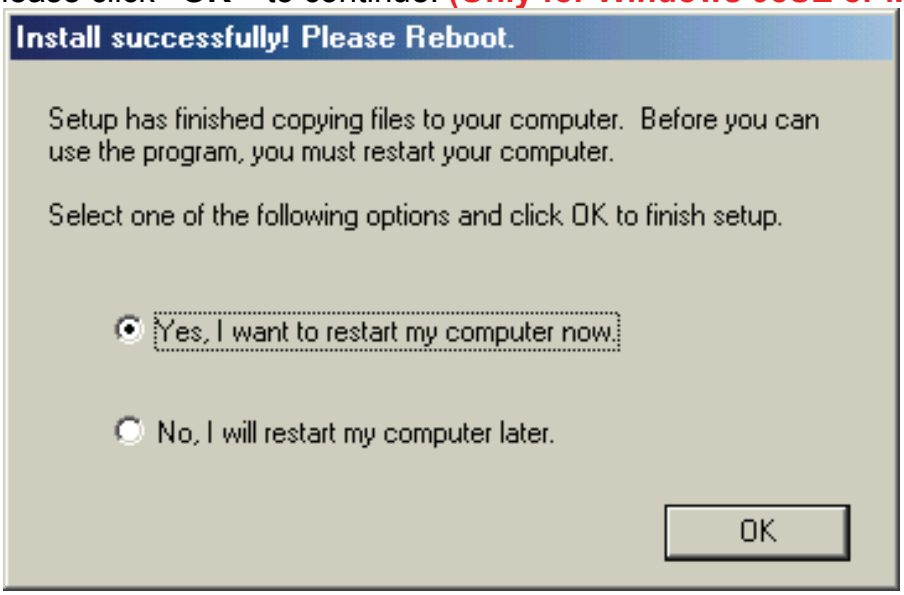

TrendChip USB ADSL Modem Installation
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Setup Type:
TYPICAL: Application will be installed with the most common options.
Destination Directory:
C:\Program Files\TRENDCHIP\TrendChip USB ADSL Modem
InstallShield
< Back
Next >
Cancel

15. USB Driver installation now


TrendChip USB ADSL Modem Installation
Setup Status
TrendChip USB ADSL Modem is configuring your new software installation.
Installing
Please plug in TrendChip USB ADSL Modem now
InstallShield
Cancel

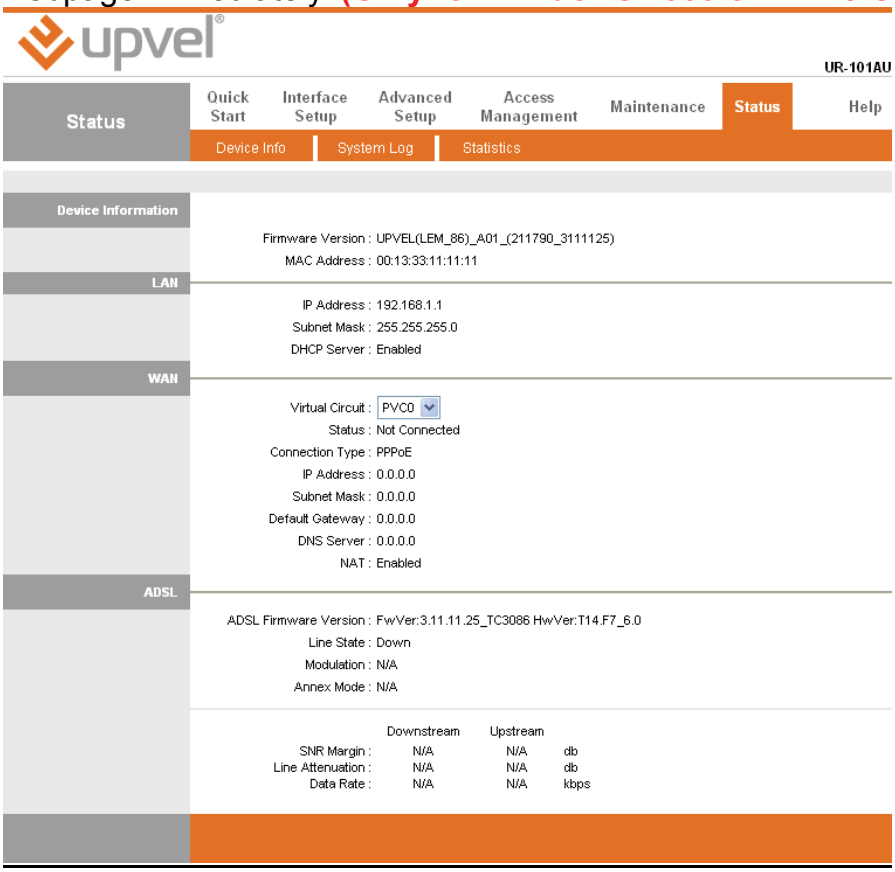
You have already plugged in the USB cable so no need to plug it in again as per the screen request!!

16. Please click **"OK "** to continue. **(Only for Windows 98SE or ME version)**

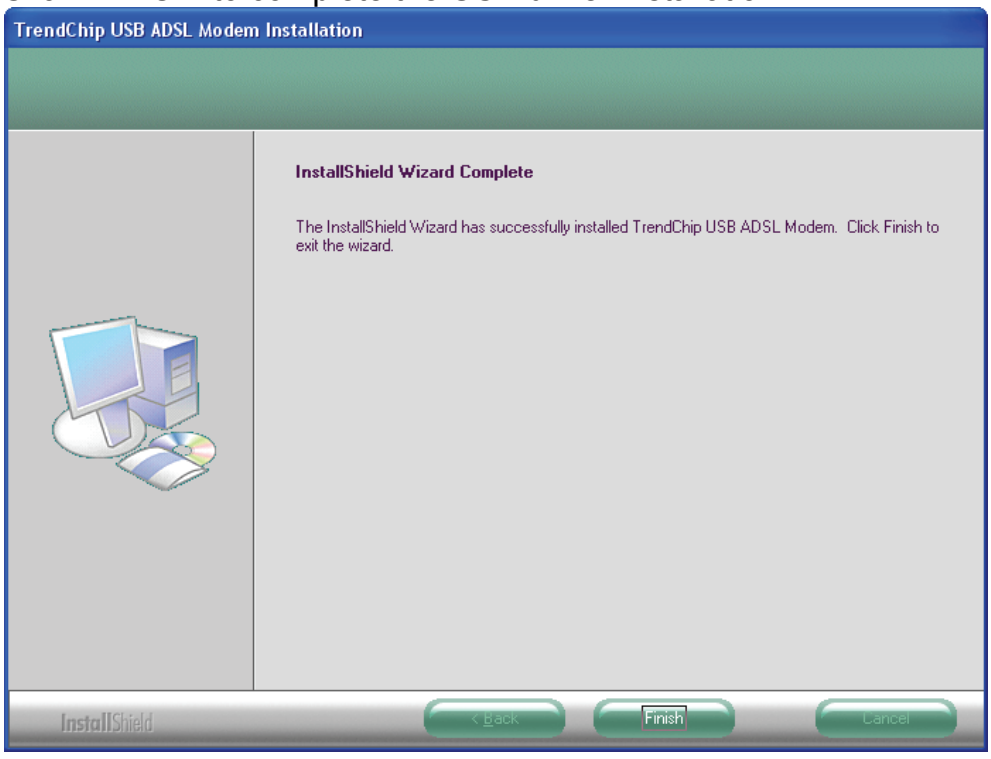

Install successfully! Please Reboot.
Setup has finished copying files to your computer. Before you can use the program, you must restart your computer.
Select one of the following options and click OK to finish setup.
Yes, I want to restart my computer now.
No, I will restart my computer later.
OK

17. Please enter "**admin**" as User name / "**1234**" as password, then click "**OK**". **(Only for Windows 2000 or XP version)**

18. Open the Webpage of ADSL2+Combo Router at 192.168.1.1 as below. Close this Webpage immediately. **(Only for Windows 2000 or XP version)**

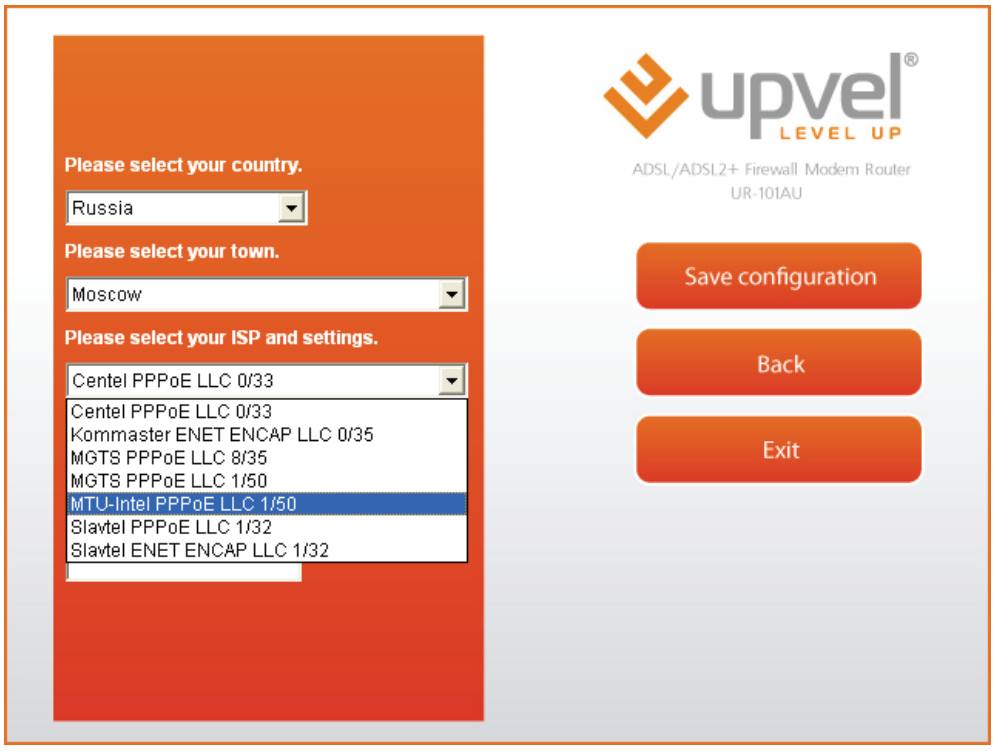


19. Click "**Finish**" to complete the USB driver installation.

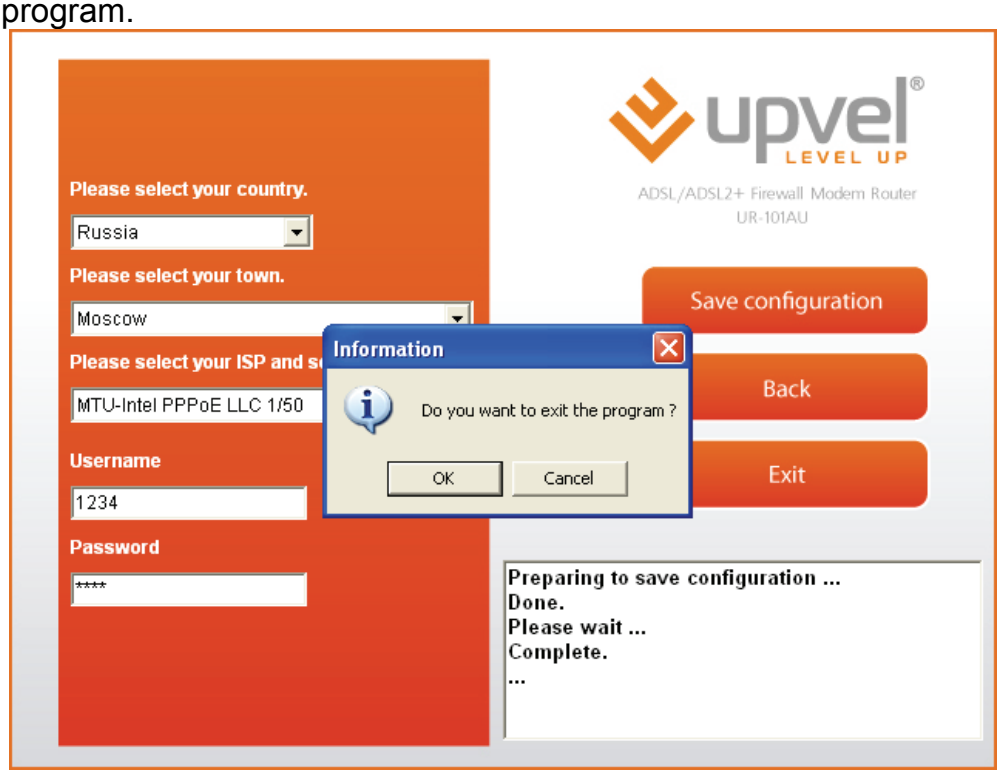

TrendChip USB ADSL Modem Installation
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed TrendChip USB ADSL Modem. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

20. Waiting few seconds and the below screenshot will appear on your screen. Please click **"Next"** to continue.

21. Select your country, town, ISP and settings your ISP (Internet Services Provider) provided, and enter your required settings. Then press "**Save Configuration**". Please wait for about 60 seconds.



22. When the **"Information"** screen pop-up, please click **"OK"** button to exit the program.



You can now access the Internet !

For Windows XP-64bit

1. Make sure to power on ADSL2+ Combo Router.

2. Make sure that you have disconnected the Ethernet RJ45 cable. Please connect one end of the supplied USB cable to ADSL2+ Combo Router, and connect the other end of USB cable to the Computer.

3. Once USB cable connected to ADSL2+ Combo Router and the following will appear on screen.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Please click "**Cancel**" to eliminate this "**Welcome to the Found New hardware Wizard**".

4. Please insert the supplied CD into your CD-ROM drive.

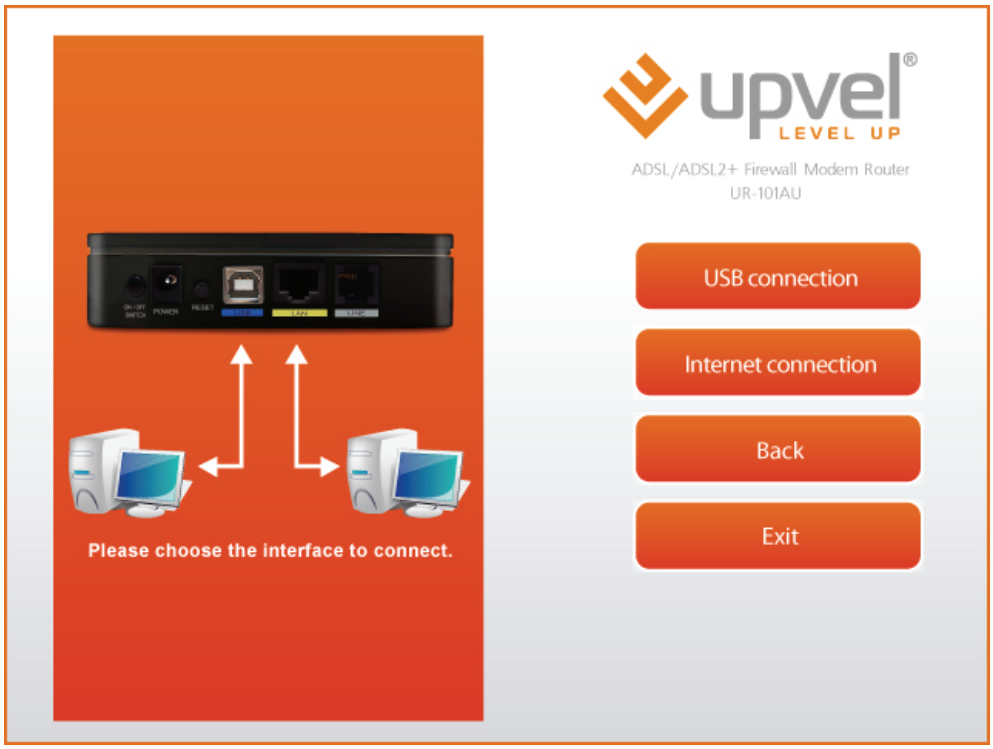
5. The CD should auto-start, displaying the window shown in 6. below. If your CD does not start automatically, go to Windows Explorer, Select your CD drive and click "**setup.exe**"

6. Please choose your language and then click button to continue.

7. To configure the device, please click "**Configuration**".

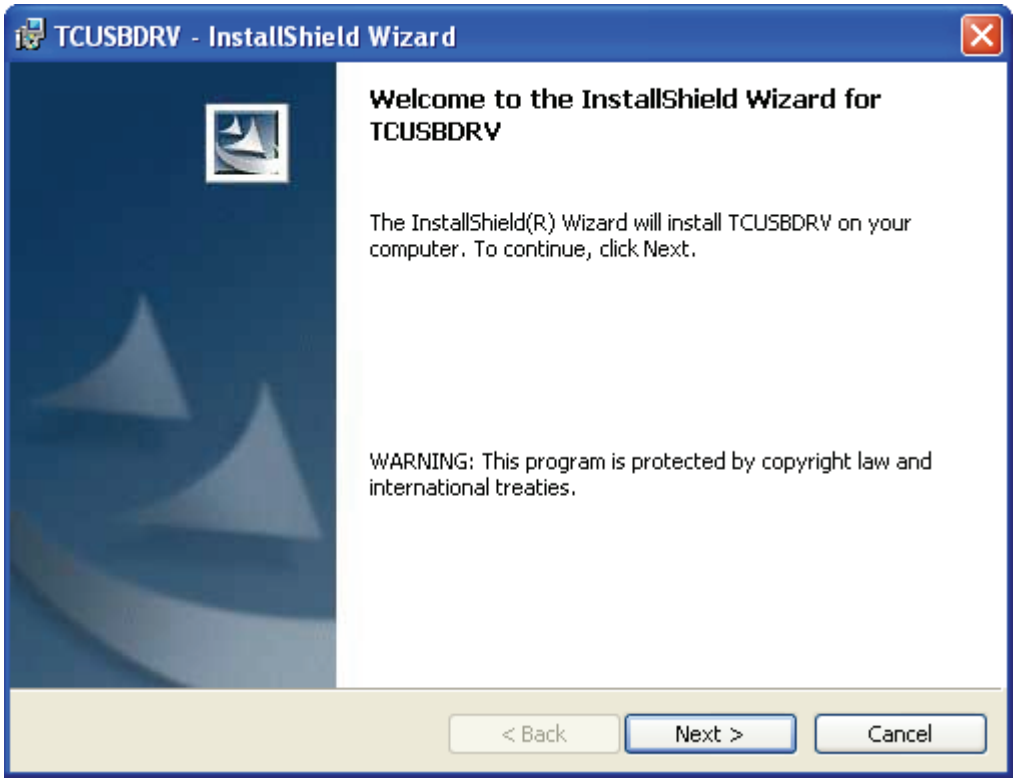
8. Please click **“Internet Configuration”** to continue.

9. Please click **“USB connection”** to continue.

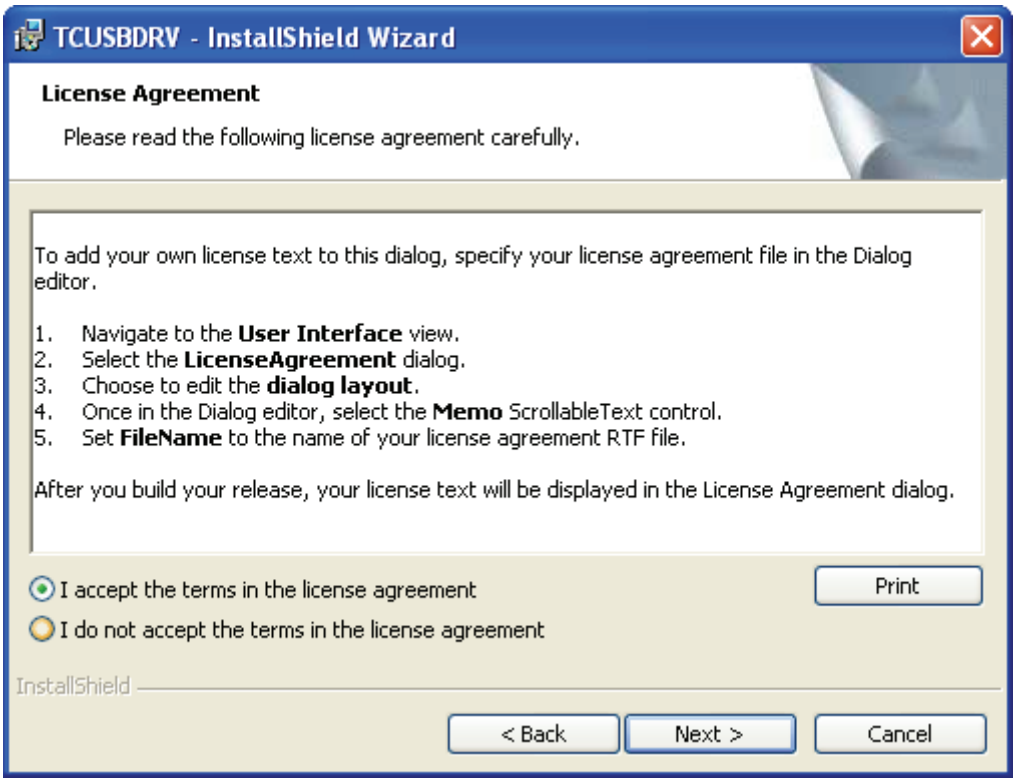


10. Please click **"USB Driver installation"** to continue.

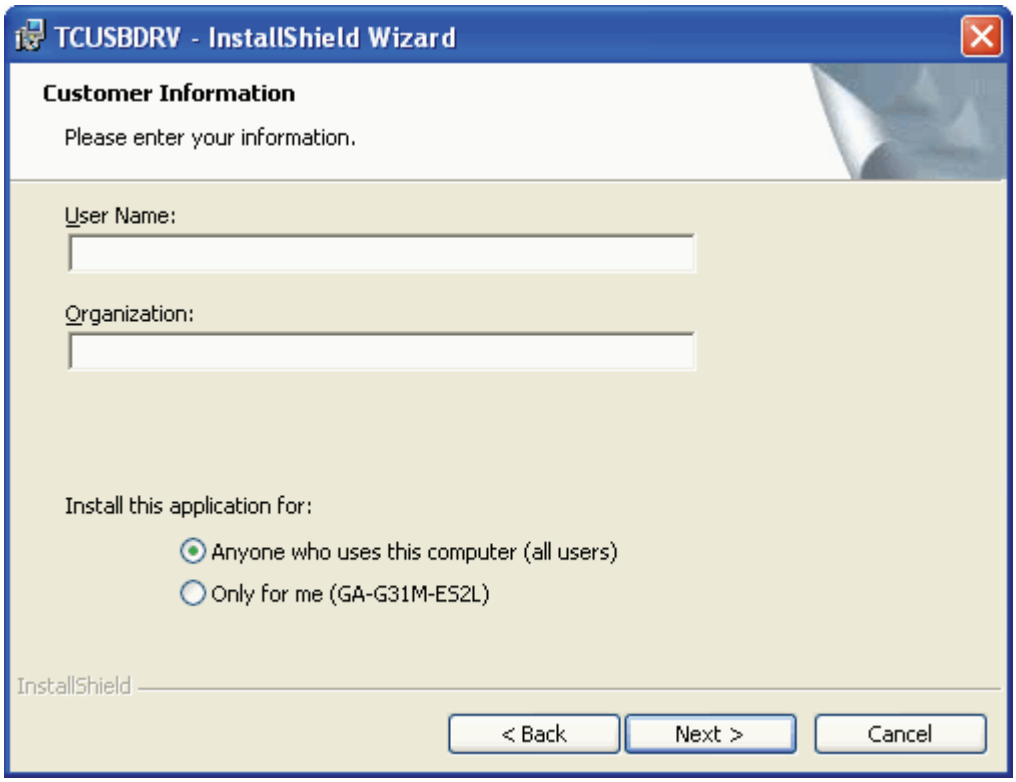
11. Please click **"Next "to** continue.


TCUSBDRV - InstallShield Wizard
Welcome to the InstallShield Wizard for TCUSBDRV
The InstallShield(R) Wizard will install TCUSBDRV on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

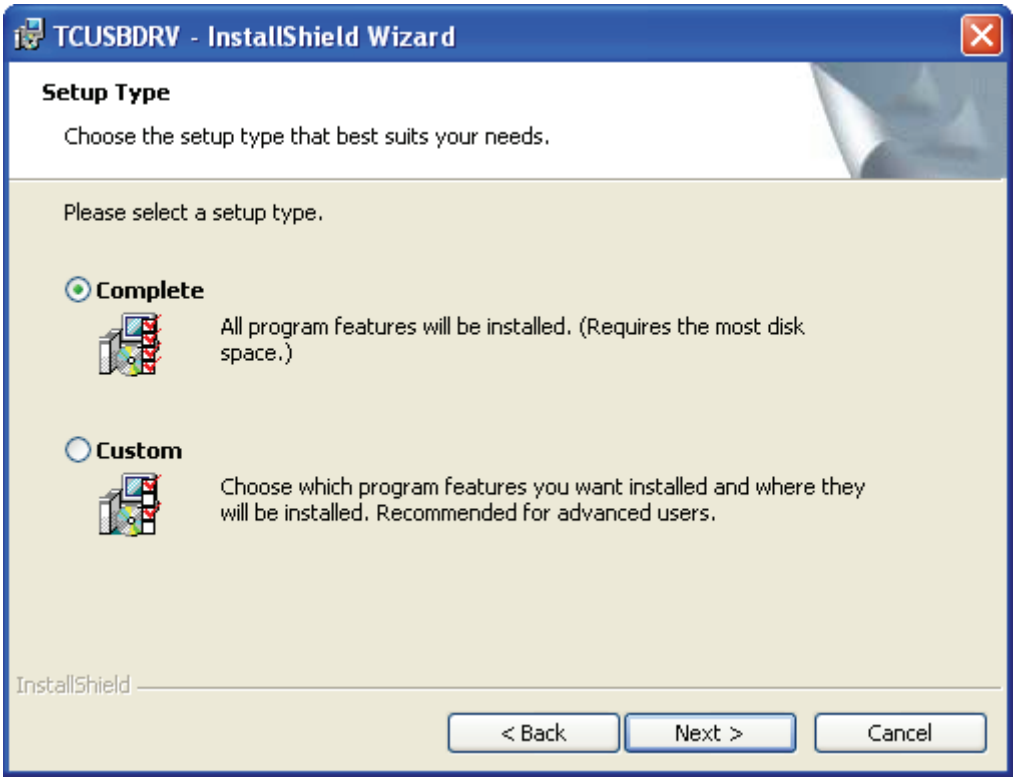
12. Please select the option **"I accept the terms in the license agreement"** and then click **"Next"** to continue.


TCUSBDRV - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
To add your own license text to this dialog, specify your license agreement file in the Dialog editor.
1. Navigate to the User Interface view.
2. Select the LicenseAgreement dialog.
3. Choose to edit the dialog layout.
4. Once in the Dialog editor, select the Memo ScrollableText control.
5. Set FileName to the name of your license agreement RTF file.
After you build your release, your license text will be displayed in the License Agreement dialog.
I accept the terms in the license agreement
I do not accept the terms in the license agreement
Print
InstallShield
< Back
Next >
Cancel

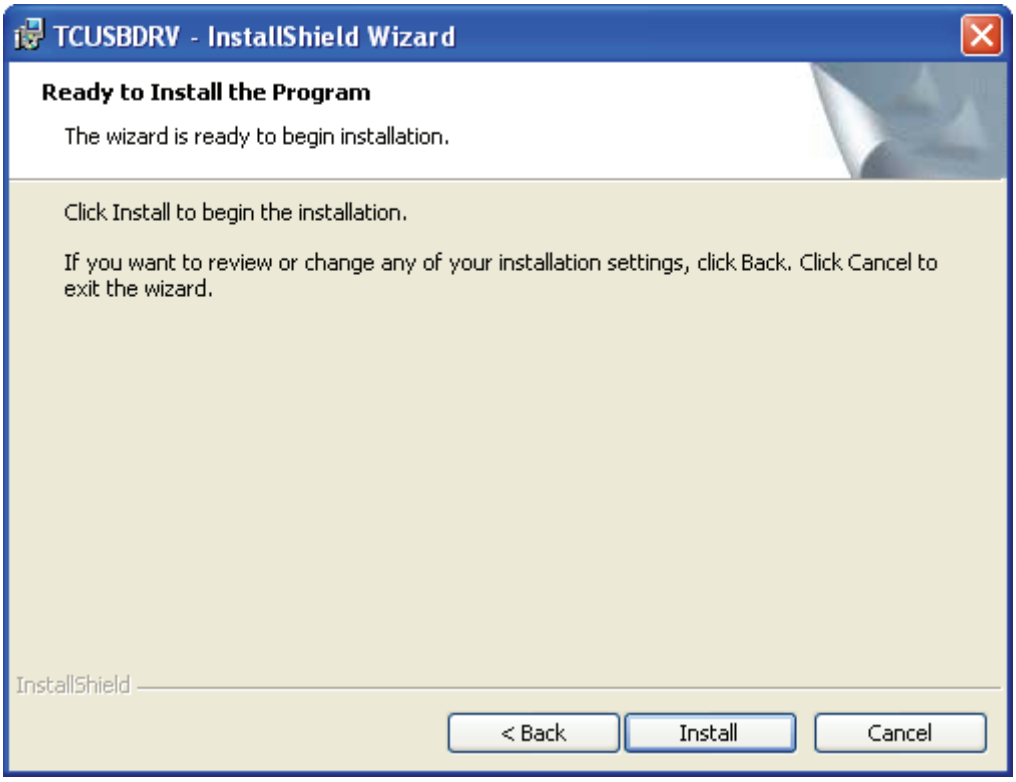
13. Please click **"Next"** to continue.



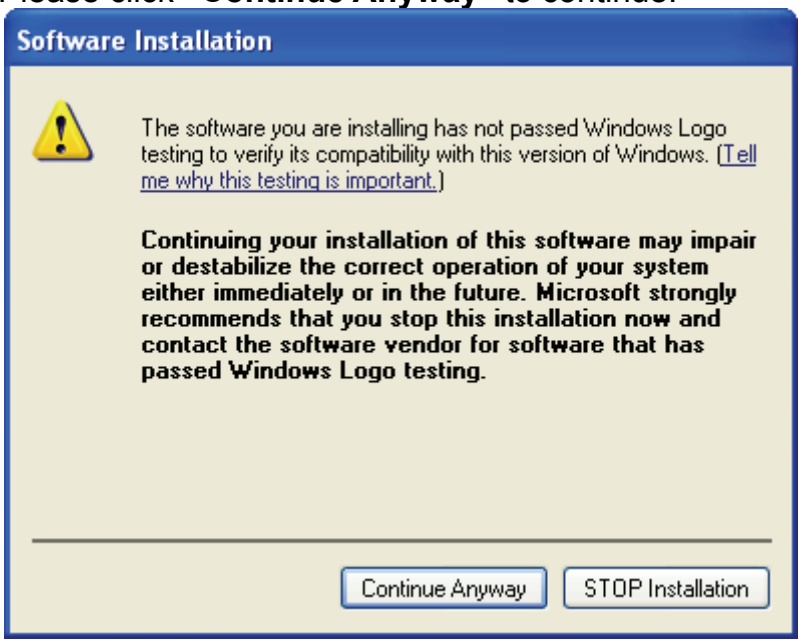
14. Please click **"Next"** to continue.


TCUSBDRV - InstallShield Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

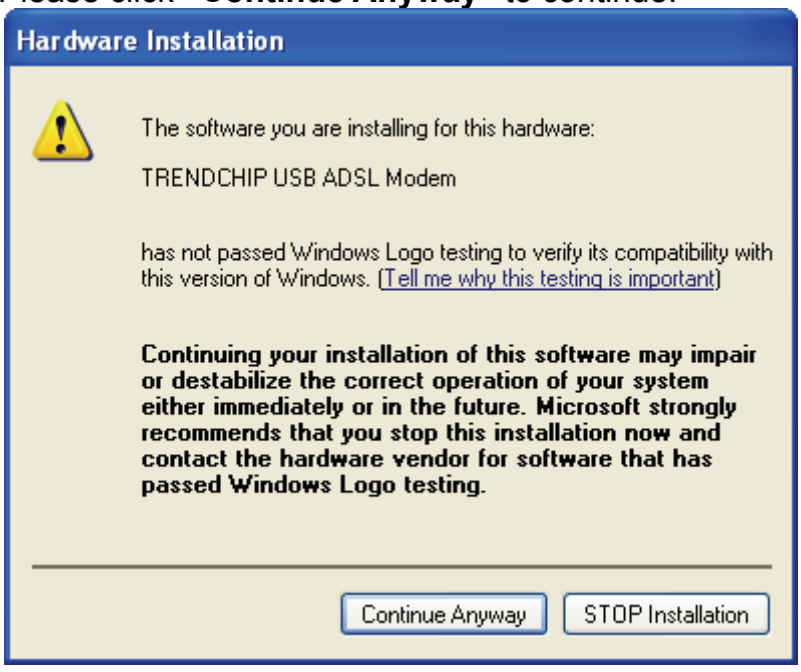
15. Please click **"Install"** to continue.


TCUSBDRV - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

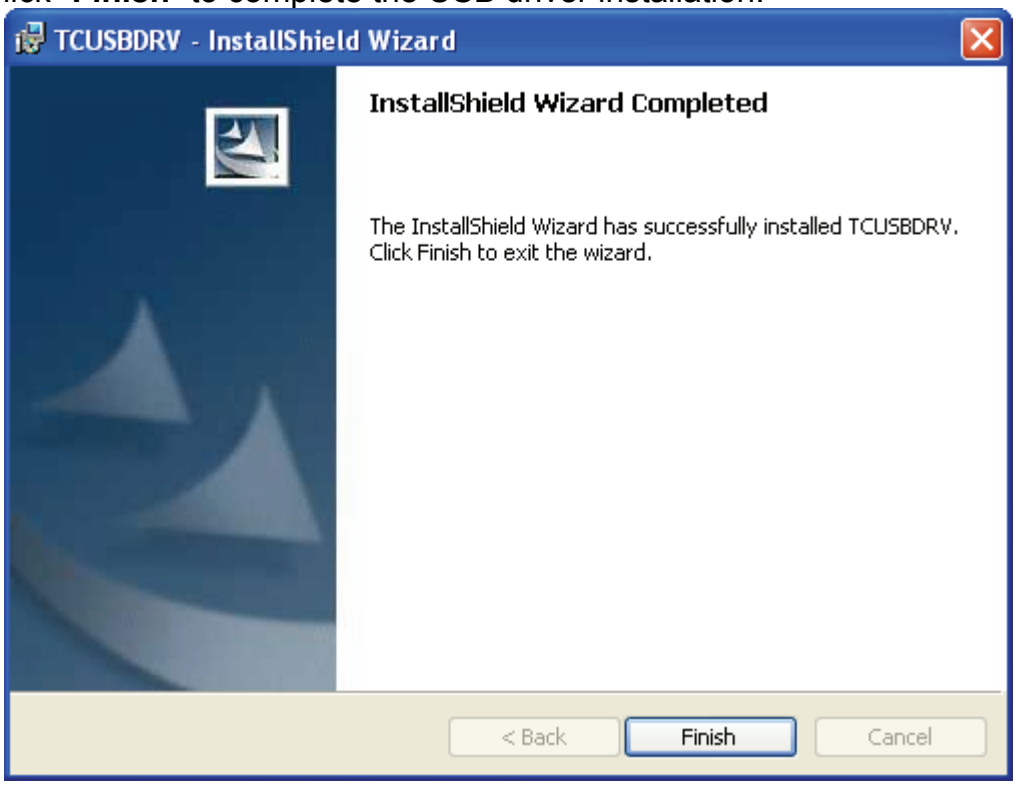
16. Please click **"Continue Anyway"** to continue.


Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with this version of Windows. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

17. Please click **"Continue Anyway"** to continue.

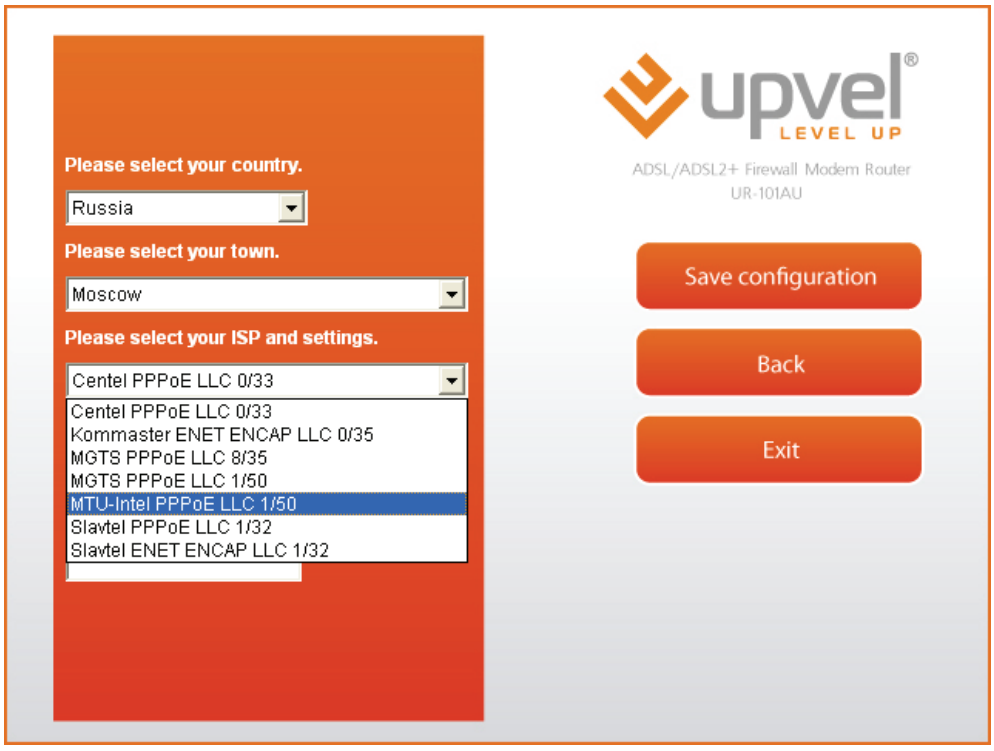

Hardware Installation
The software you are installing for this hardware:
TRENDCHIP USB ADSL Modem
has not passed Windows Logo testing to verify its compatibility with this version of Windows. (Tell me why this testing is important)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

18. Click “**Finish**” to complete the USB driver installation.

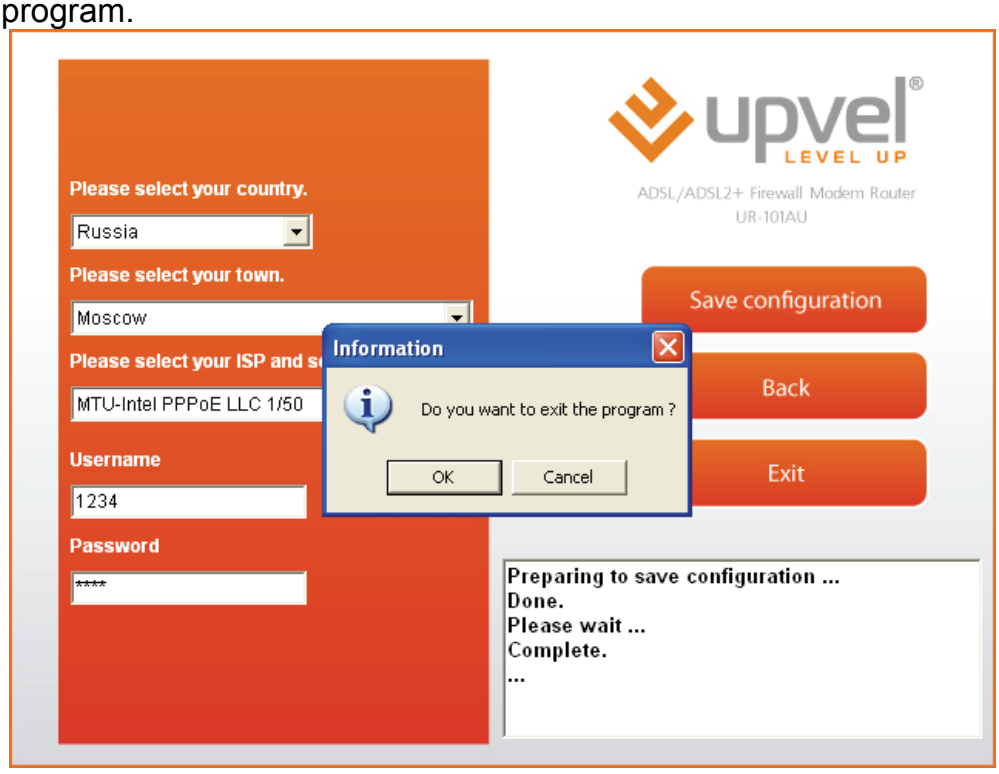

TCUSBDRV - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed TCUSBDRV. Click Finish to exit the wizard.
< Back
Finish
Cancel

19. Waiting few seconds and the below screenshot will appear on your screen. Please click **“Next”** to continue.

20. Select your country, town, ISP and settings your ISP (Internet Services Provider) provided, and enter your required settings. Then press "**Save Configuration**". Please wait for about 60 seconds.



21. When the **"Information"** screen pop-up, please click **"OK"** button to exit the program.



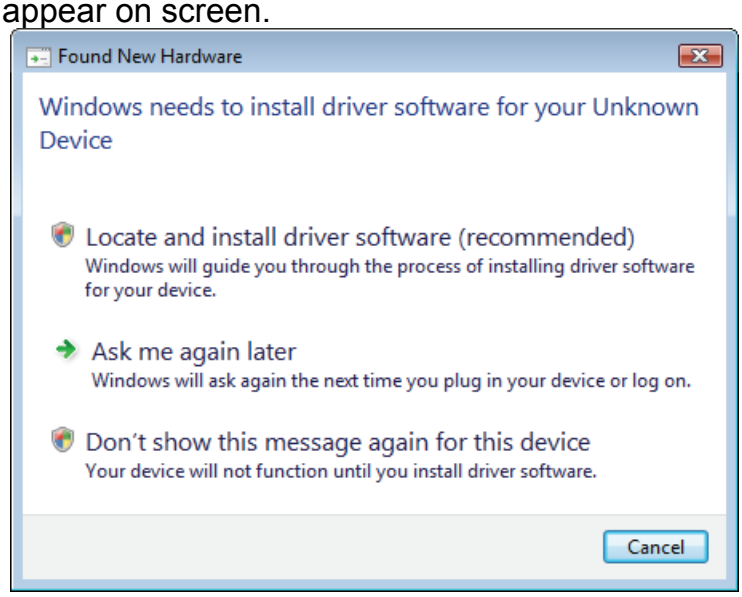
You can now access the Internet !

For Windows Vista-32bit

1. Make sure to power on ADSL2+ Combo Router.

2. Make sure that you have disconnected the Ethernet RJ45 cable. Please connect one end of the supplied USB cable to ADSL2+ Combo Router, and connect the other end of USB cable to the Computer.

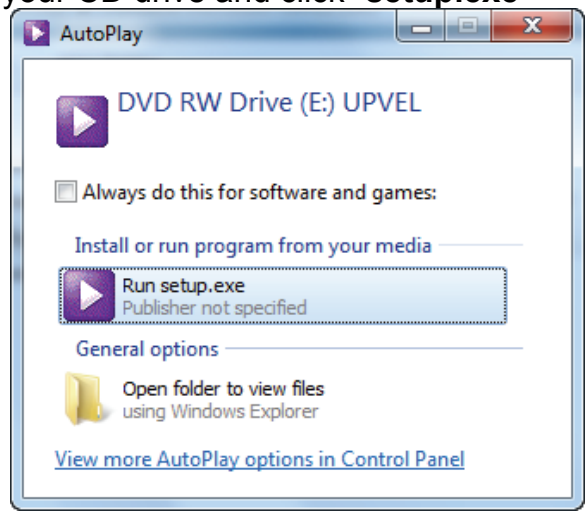
3. Once USB cable connected to ADSL2+ Combo Router and the following will appear on screen.


Found New Hardware
Windows needs to install driver software for your Unknown Device
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

Please click "**Cancel**" to eliminate this "**Found New hardware Wizard**".

4. Please insert the supplied CD into your CD-ROM drive.

5. The CD should auto-start, displaying as below. Please click "**Run setup.exe**" to continue. If your CD does not start automatically go to Windows Explorer, Select your CD drive and click "**setup.exe**"

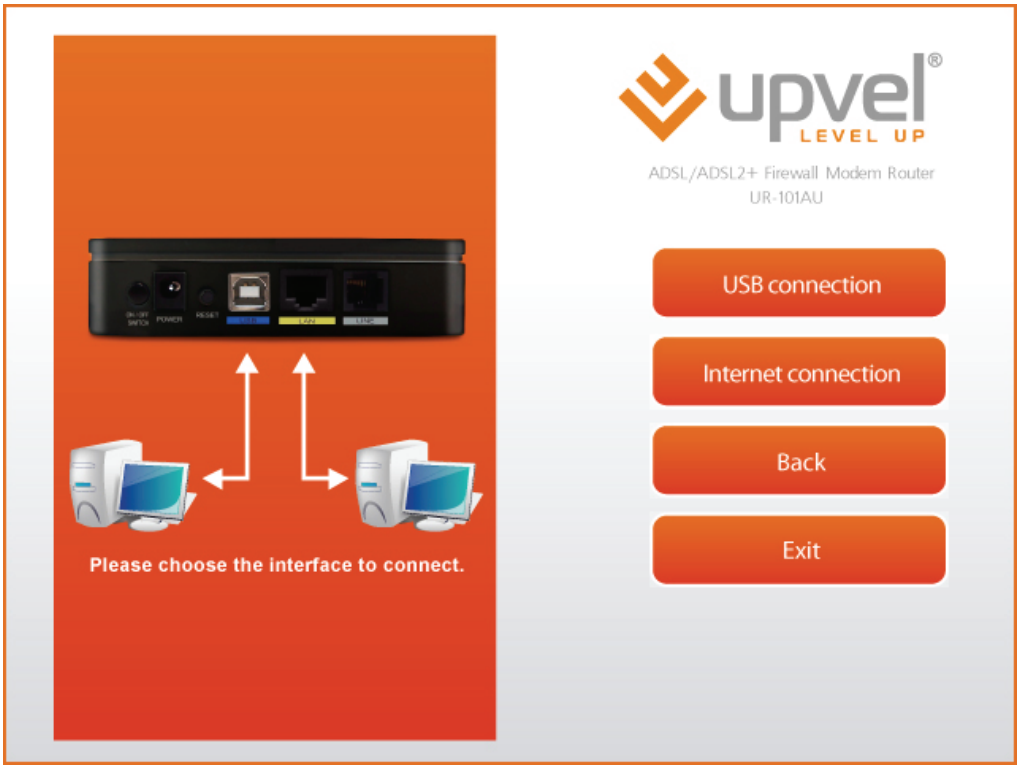

AutoPlay
DVD RW Drive (E:) UPVEL
Always do this for software and games:
Install or run program from your media
Run setup.exe
Publisher not specified
General options
Open folder to view files
using Windows Explorer
View more AutoPlay options in Control Panel

6. The screen will display the information **“ User Account Control”** and click **“ Allow”** to continue.
7. Please choose your language and then click button to continue.

8. To configure the device, please click “**Configuration**”.

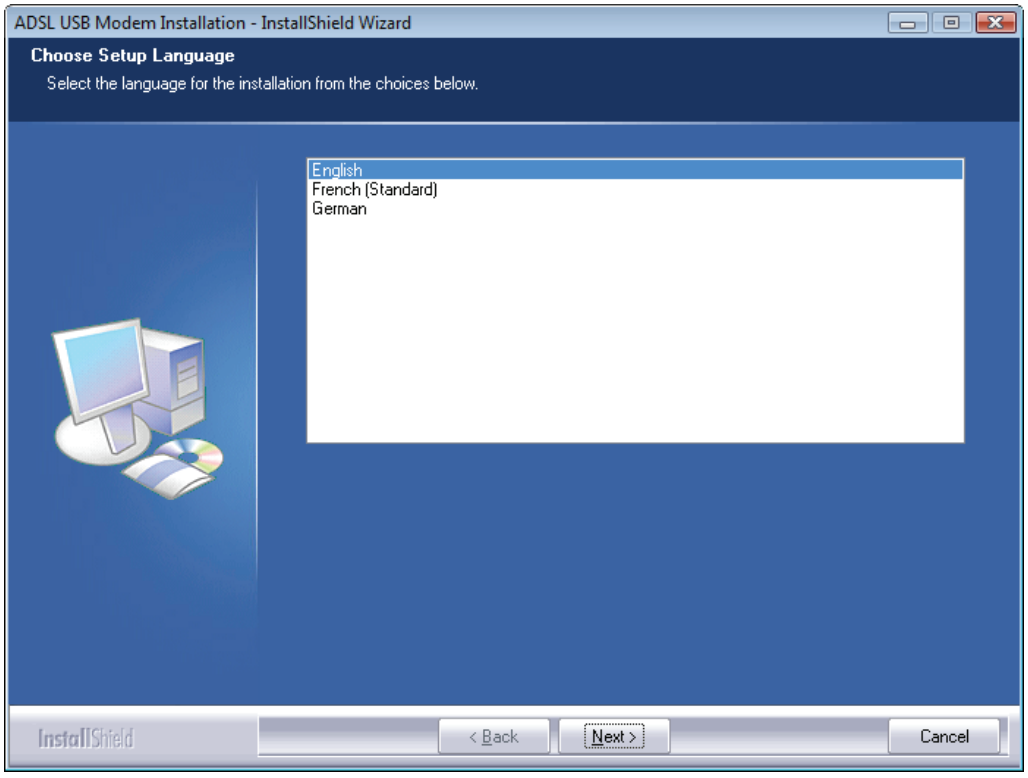
9. Please click **"Internet Configuration"** to continue.

10. Please click **"USB connection"** to continue.

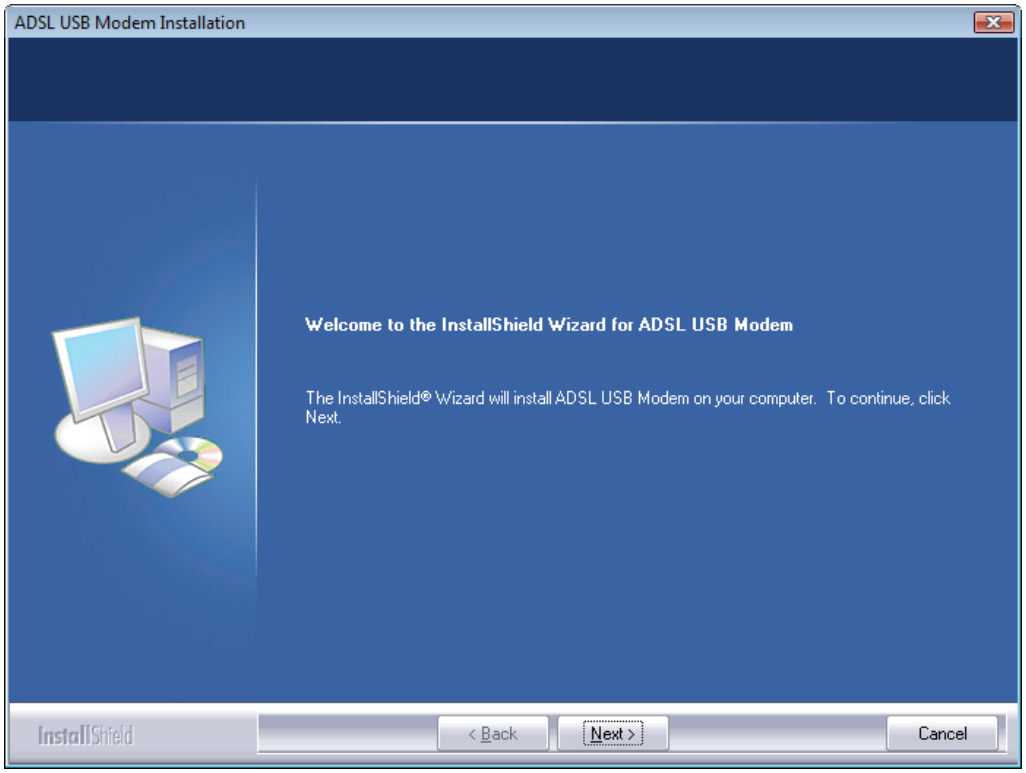


11. Please click **“USB Driver installation”** to continue.

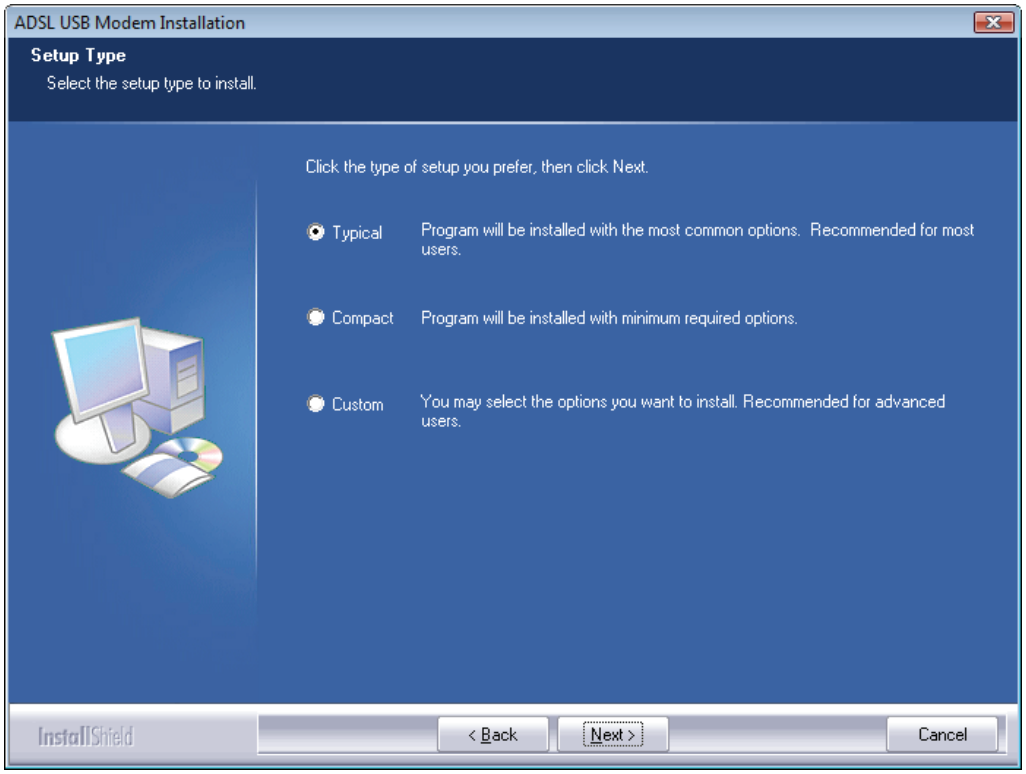
12. Please choose your language and click **“Next“**to continue.



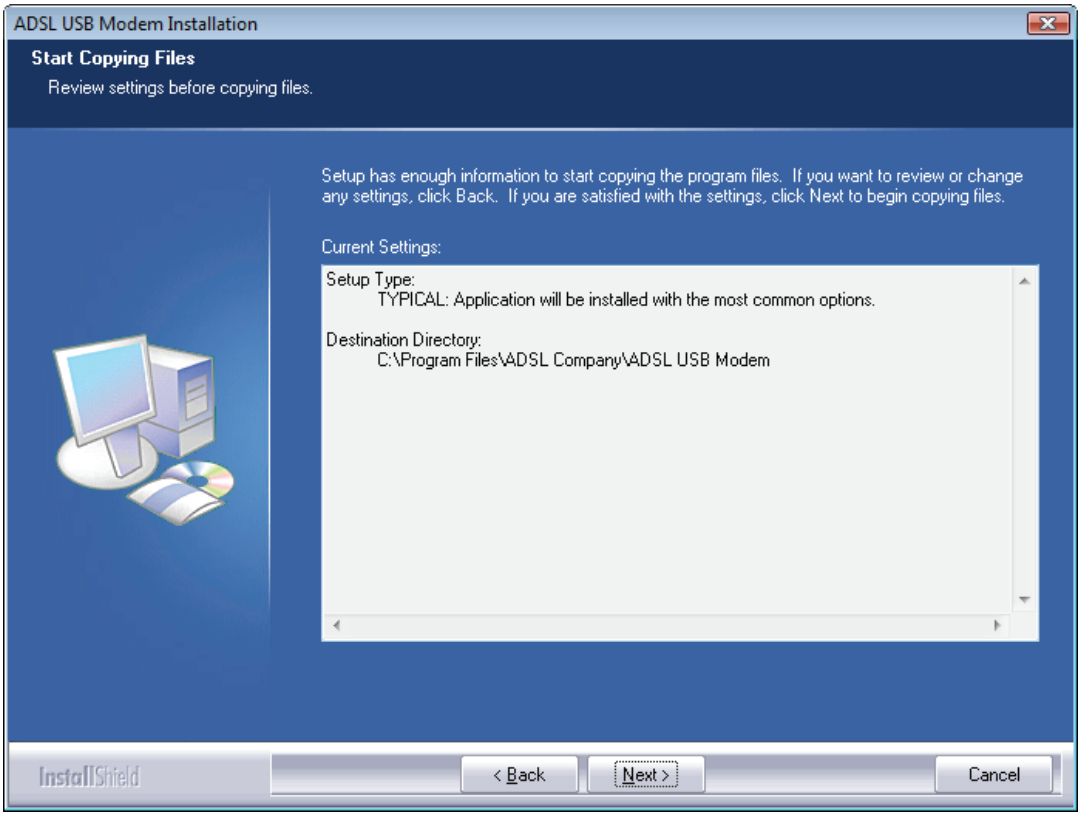
13. Please click **"Next"**to continue.


ADSL USB Modem Installation
Welcome to the InstallShield Wizard for ADSL USB Modem
The InstallShield® Wizard will install ADSL USB Modem on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

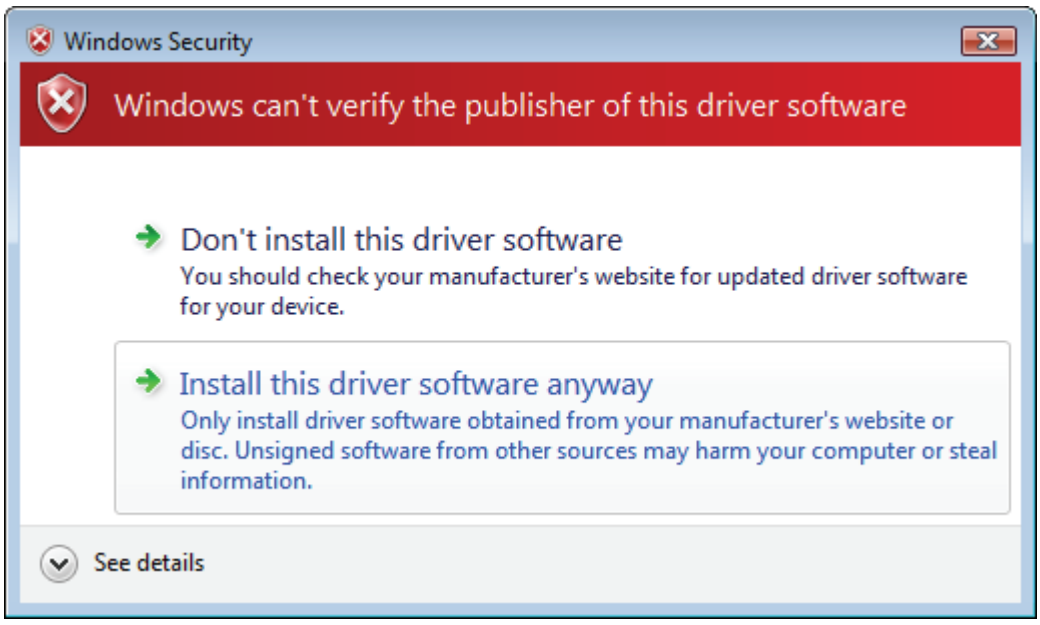
14. Please select **"Typical"** type and then click **"Next"** to continue.


ADSL USB Modem Installation
Setup Type
Select the setup type to install.
Click the type of setup you prefer, then click Next.
Typical
Program will be installed with the most common options. Recommended for most users.
Compact
Program will be installed with minimum required options.
Custom
You may select the options you want to install. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

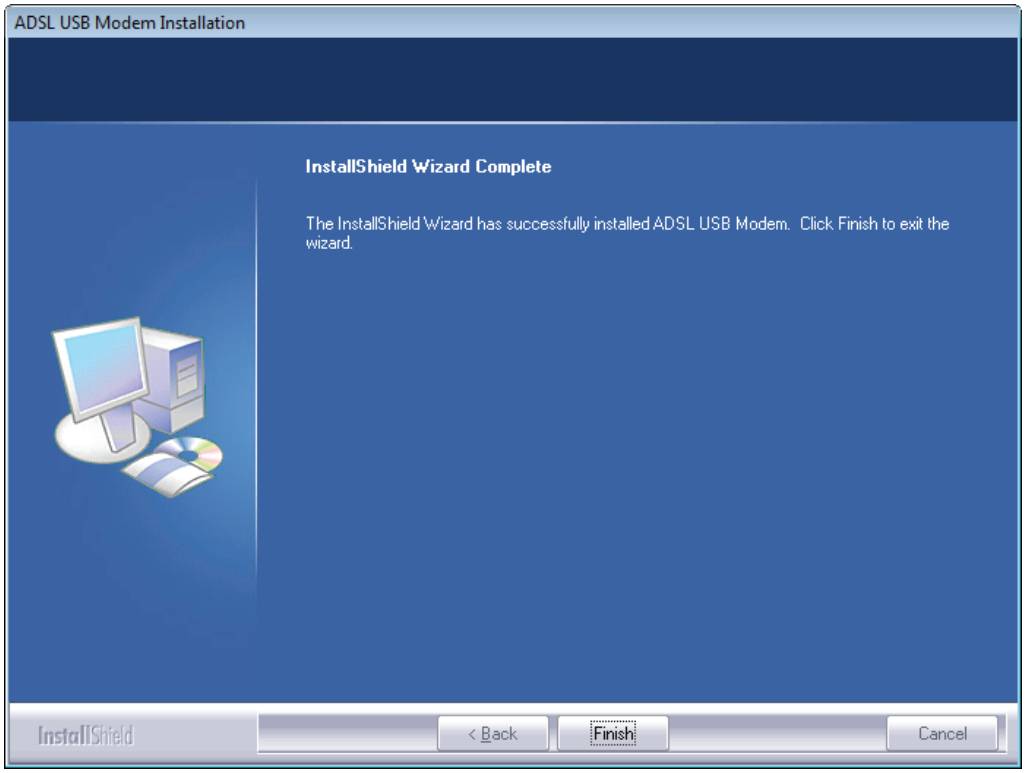
15. Please click **"Next"** to continue.


ADSL USB Modem Installation
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Setup Type:
TYPICAL: Application will be installed with the most common options.
Destination Directory:
C:\Program Files\ADSL Company\ADSL USB Modem
InstallShield
< Back
Next >
Cancel

16. Please click **"Install this driver software anyway"** to continue.

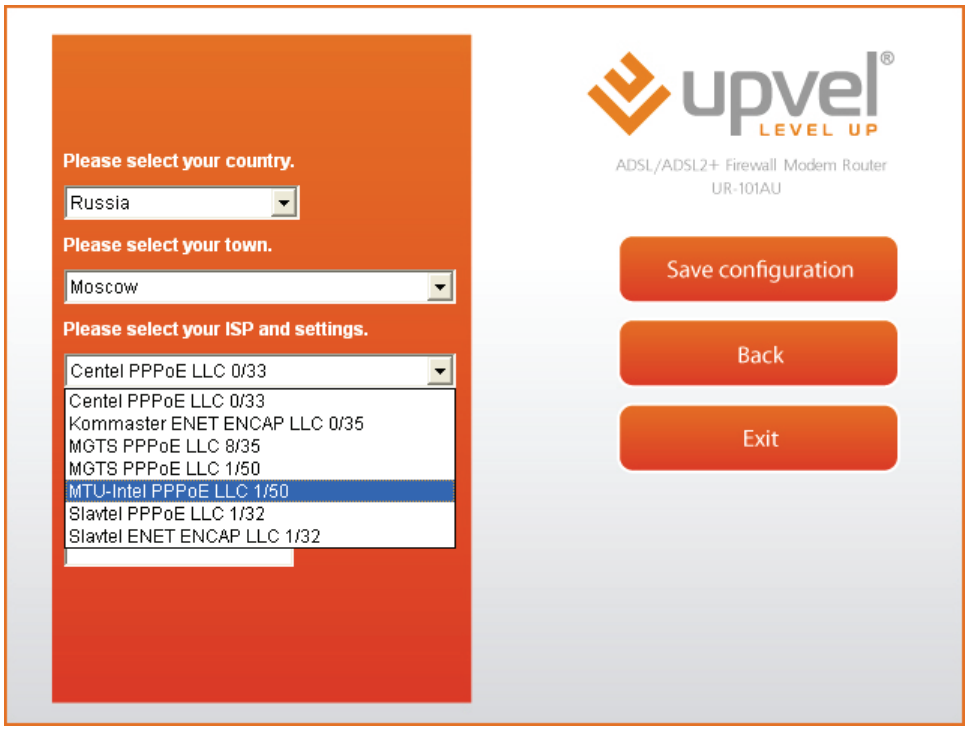

Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

17. Please click **"Finish"** to complete the USB driver installation.

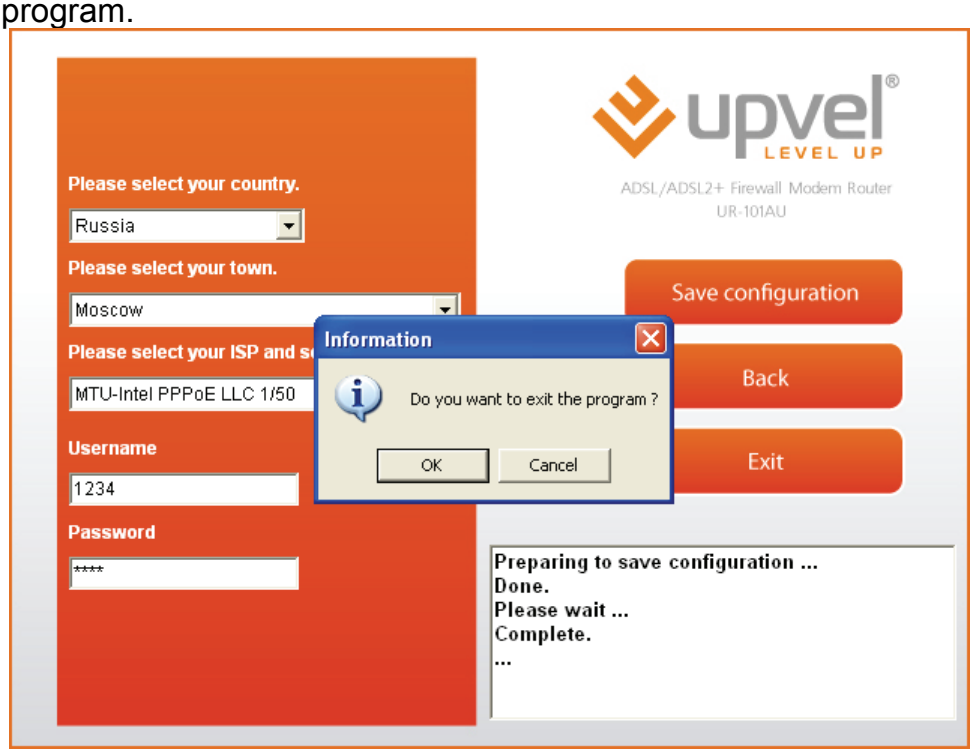


18. Waiting few seconds and the below screenshot will appear on your screen. Please click **"Next"** to continue.

19. Select your country, town, ISP and settings your ISP (Internet Services Provider) provided, and enter your required settings. Then press "**Save Configuration**". Please wait for about 60 seconds.



22. When the **"Information"** screen pop-up, please click **"OK"** button to exit the program.



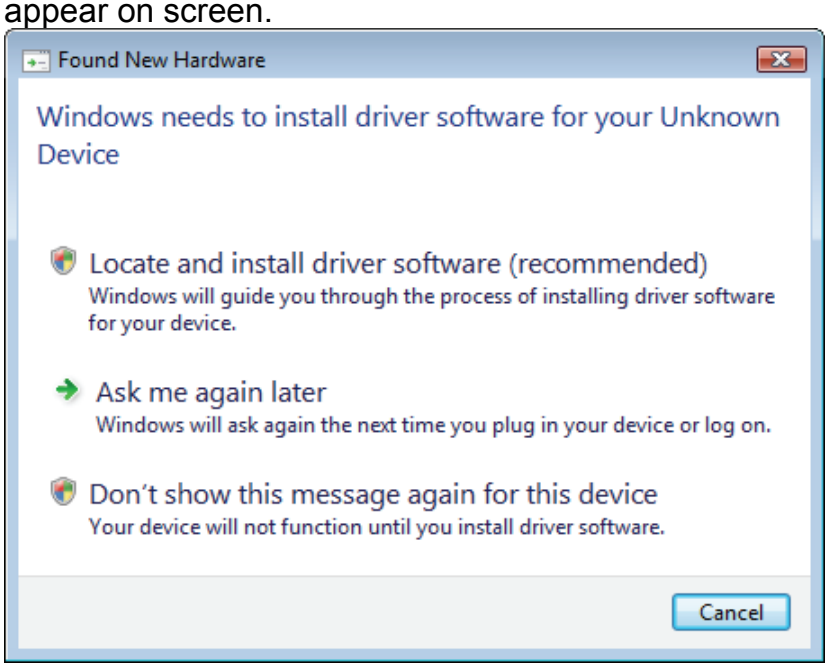
You can now access the Internet!

For Windows Vista-64bit

1. Make sure to power on ADSL2+ Combo Router.

2. Make sure that you have disconnected the Ethernet RJ45 cable. Please connect one end of the supplied USB cable to ADSL2+ Combo Router, and connect the other end of USB cable to the Computer.

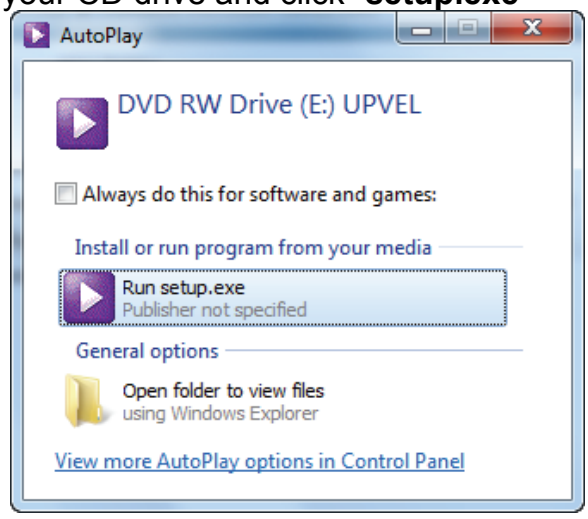
3. Once USB cable connected to ADSL2+ Combo Router and the following will appear on screen.


Found New Hardware
Windows needs to install driver software for your Unknown Device
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

Please click "**Cancel**" to eliminate this "**Found New hardware Wizard**".

4. Please insert the supplied CD into your CD-ROM drive.

5. The CD should auto-start, displaying as below. Please click "**Run setup.exe**" to continue. If your CD does not start automatically go to Windows Explorer, Select your CD drive and click "**setup.exe**"


AutoPlay
DVD RW Drive (E:) UPVEL
Always do this for software and games:
Install or run program from your media
Run setup.exe
Publisher not specified
General options
Open folder to view files
using Windows Explorer
View more AutoPlay options in Control Panel

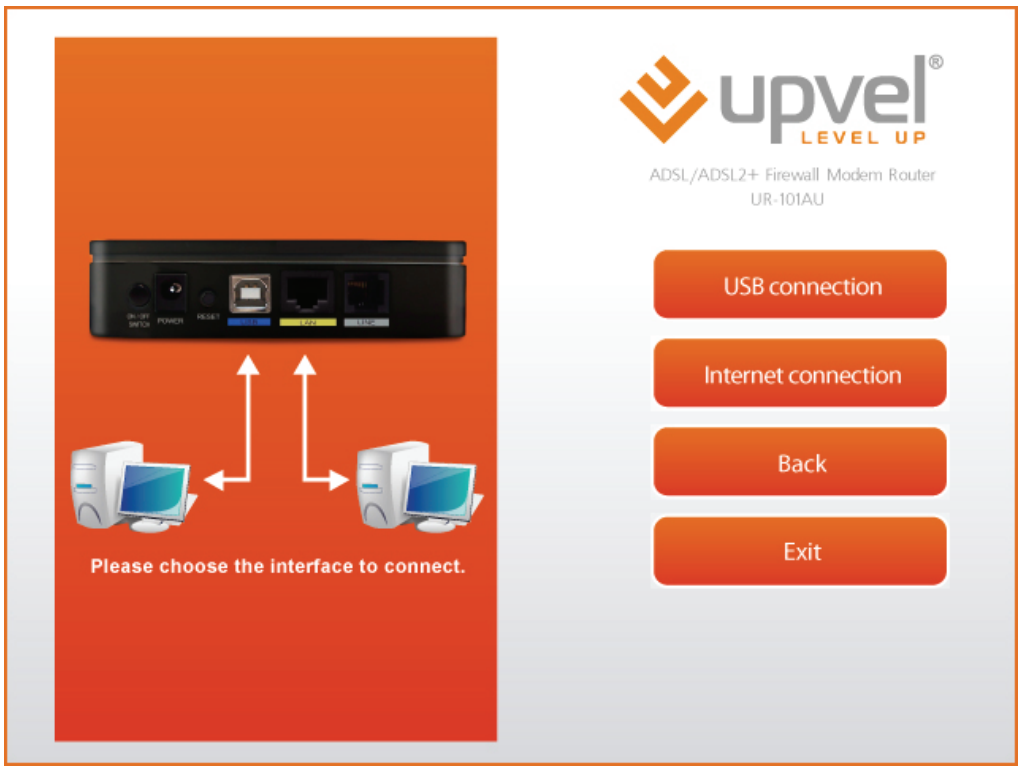
6. The screen will display the information **“ User Account Control”** and click **“ Allow”** to continue.

7. Please choose your language and then click button to continue.

8. To configure the device, please click “**Configuration**”.

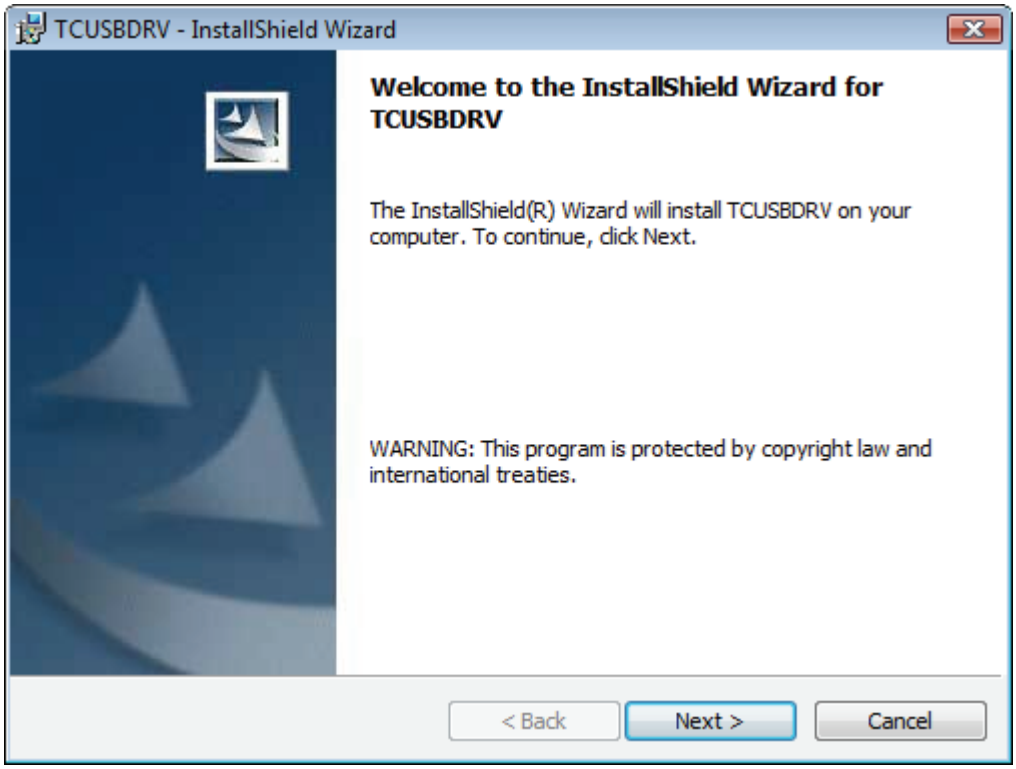
9. Please click **"Internet Configuration"** to continue.

10. Please click **"USB connection"** to continue.

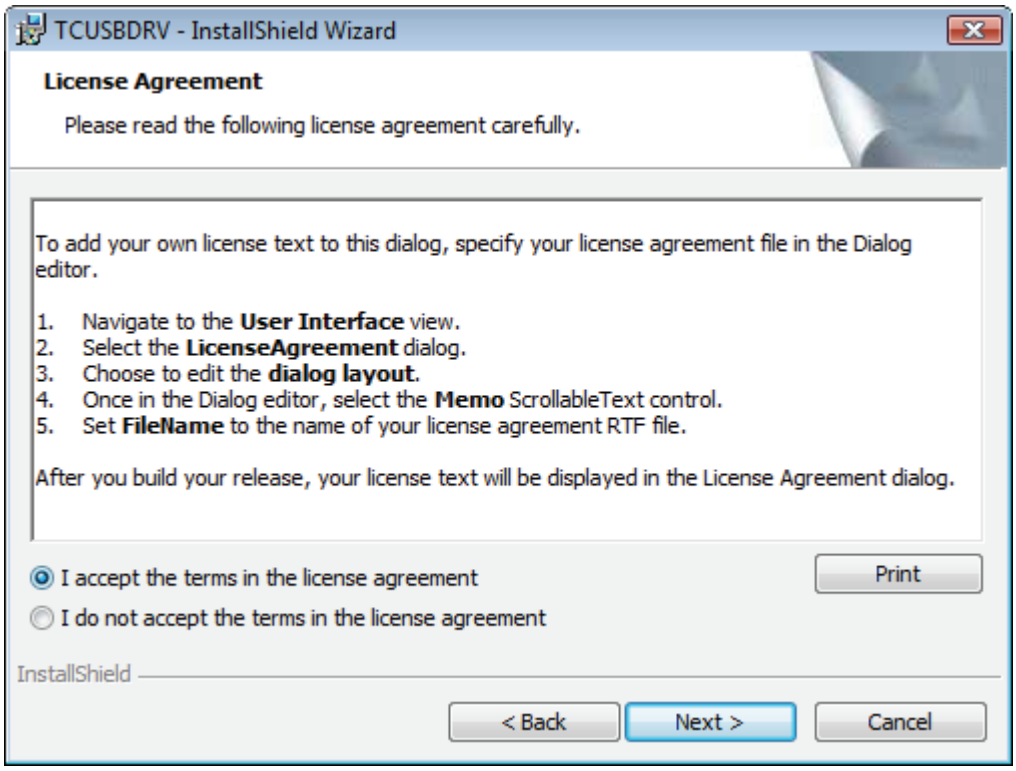


11. Please click **"USB Driver installation"** to continue.

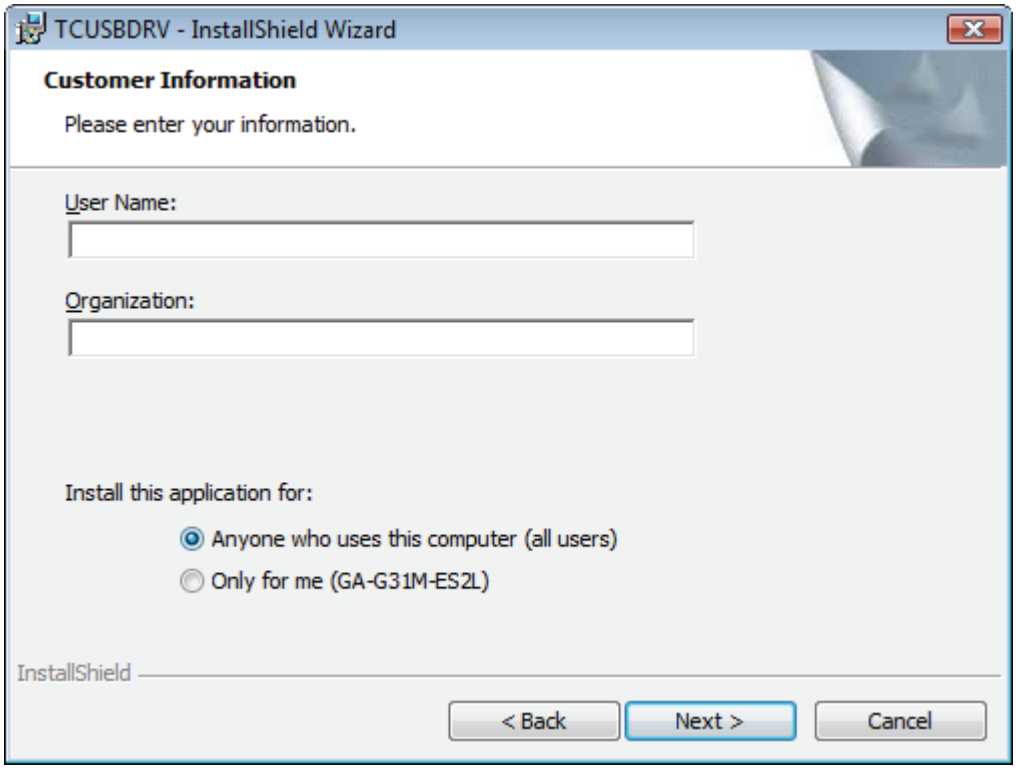
12. Please click **"Next"** to continue.


TCUSBDRV - InstallShield Wizard
Welcome to the InstallShield Wizard for TCUSBDRV
The InstallShield(R) Wizard will install TCUSBDRV on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

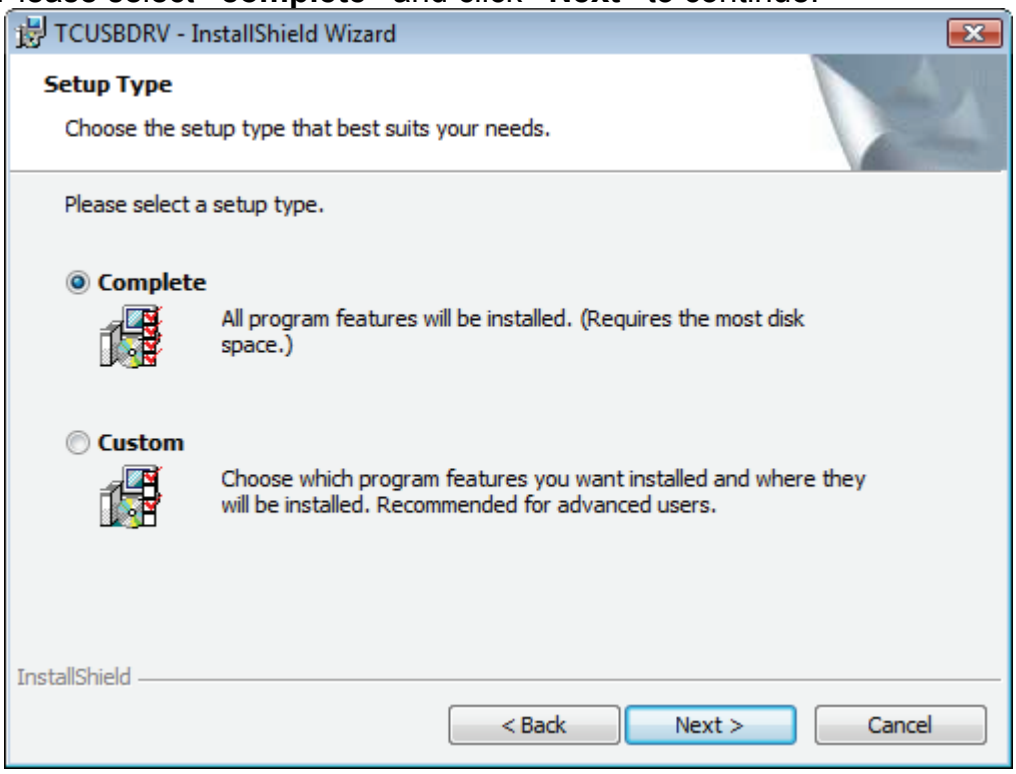
13. Please check **"I accept the terms in the license agreement"** and click **"Next"** to continue.


TCUSBDRV - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
To add your own license text to this dialog, specify your license agreement file in the Dialog editor.
1. Navigate to the User Interface view.
2. Select the LicenseAgreement dialog.
3. Choose to edit the dialog layout.
4. Once in the Dialog editor, select the Memo ScrollableText control.
5. Set FileName to the name of your license agreement RTF file.
After you build your release, your license text will be displayed in the License Agreement dialog.
I accept the terms in the license agreement
I do not accept the terms in the license agreement
Print
InstallShield
< Back
Next >
Cancel

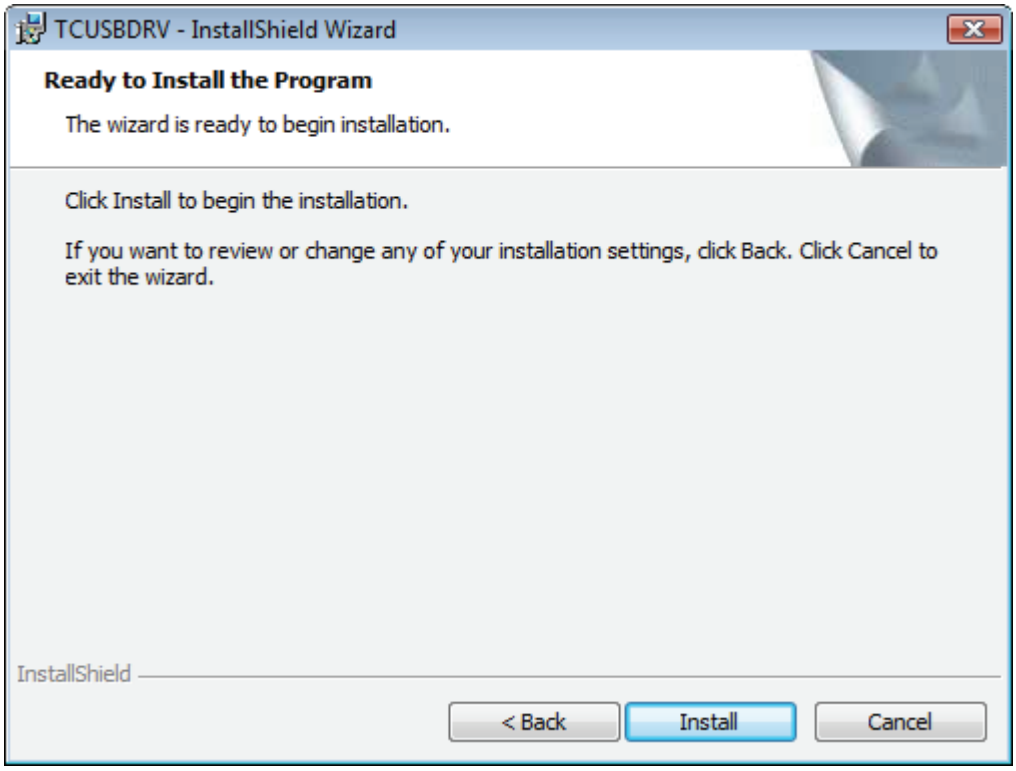
14. Please click **"Next"** to continue.



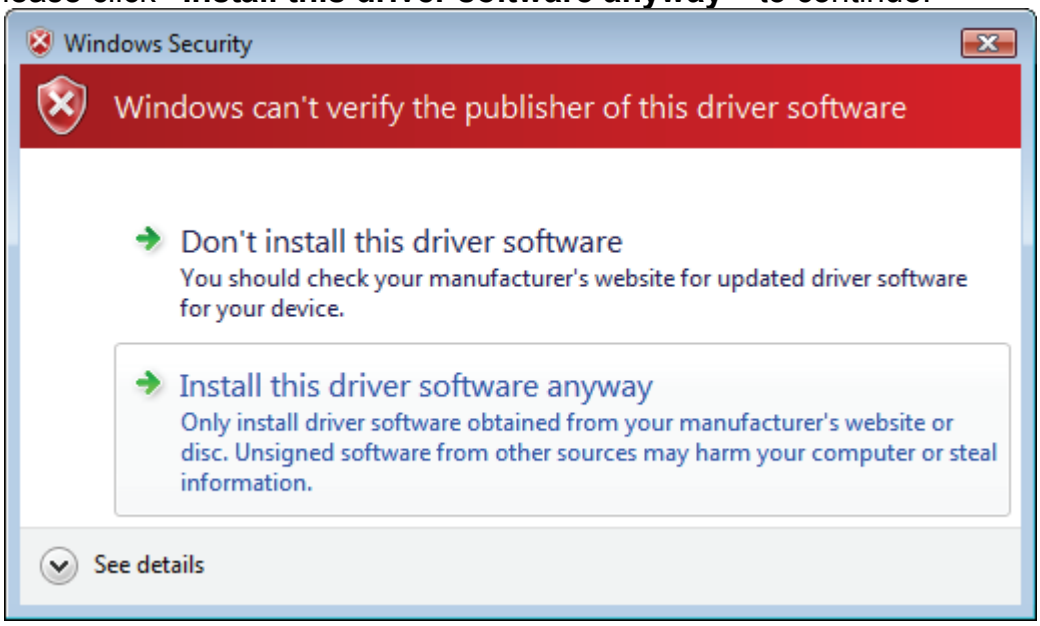
15. Please select **"complete"** and click **"Next"** to continue.


TCUSBDRV - InstallShield Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

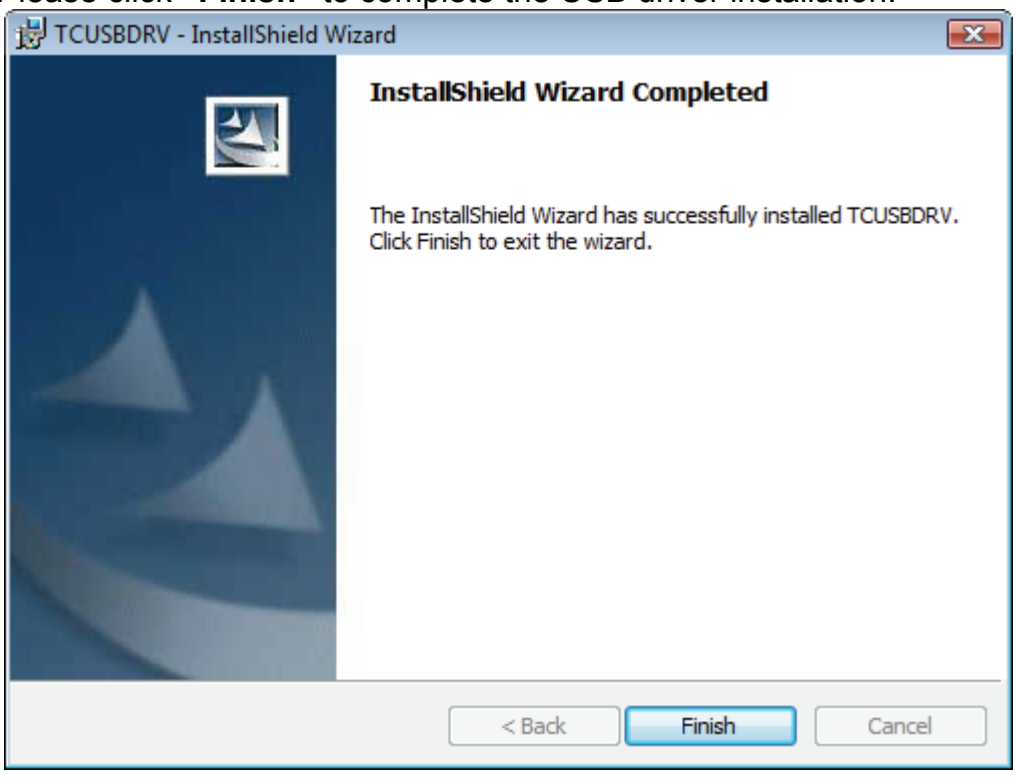
16. Please click **"Install"** to continue.


TCUSBDRV - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

17. Please click **"Install this driver software anyway "** to continue.

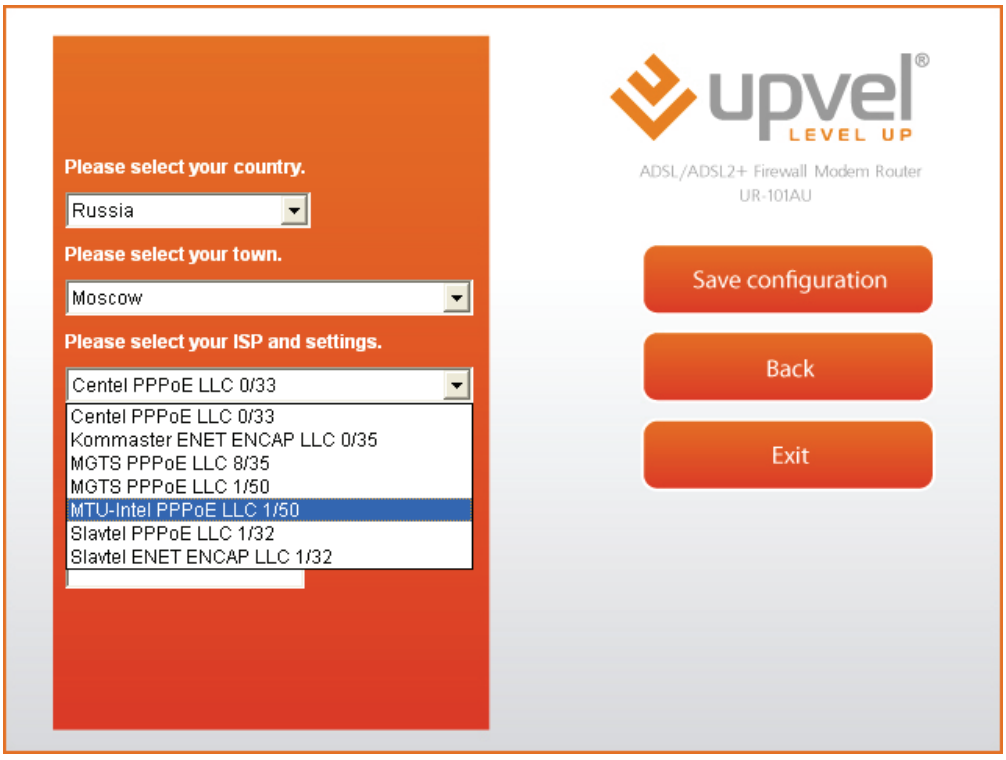

Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

18. Please click **"Finish"** to complete the USB driver installation.

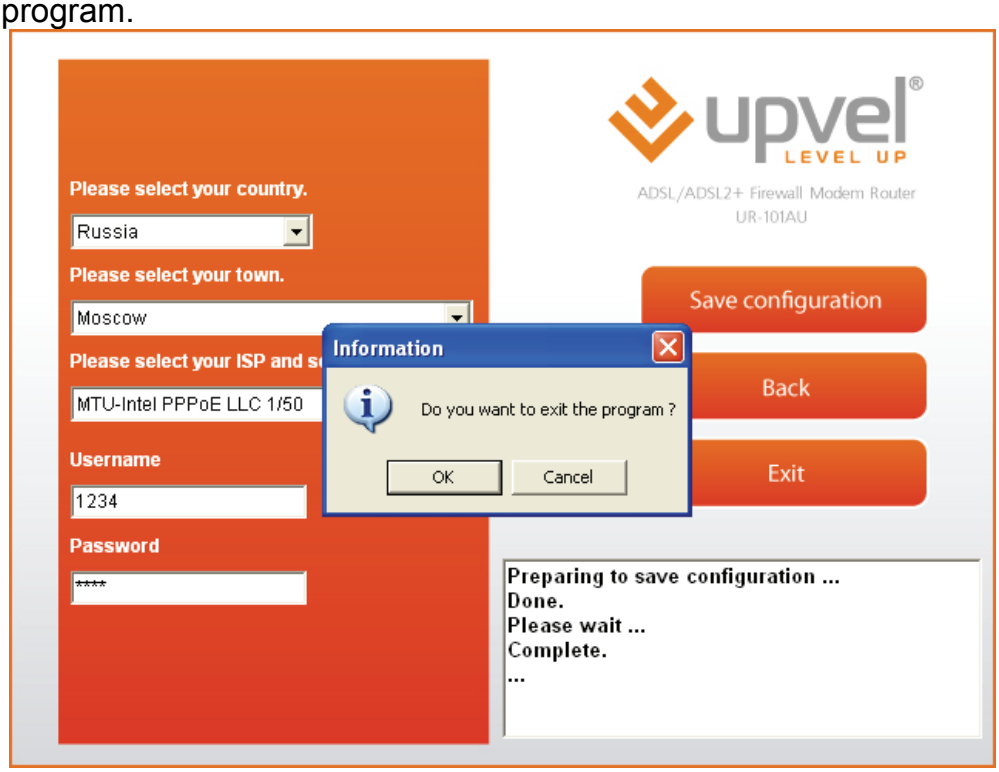

TCUSBDRV - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed TCUSBDRV. Click Finish to exit the wizard.
< Back
Finish
Cancel

19. Waiting few seconds and the below screenshot will appear on your screen. Please click **"Next"** to continue.

20. Select your country, town, ISP and settings your ISP (Internet Services Provider) provided, and enter your required settings. Then press "**Save Configuration**". Please wait for about 60 seconds.



21. When the **"Information"** screen pop-up, please click **"OK"** button to exit the program.



You can now access the Internet !

For Windows 7-32/64bit

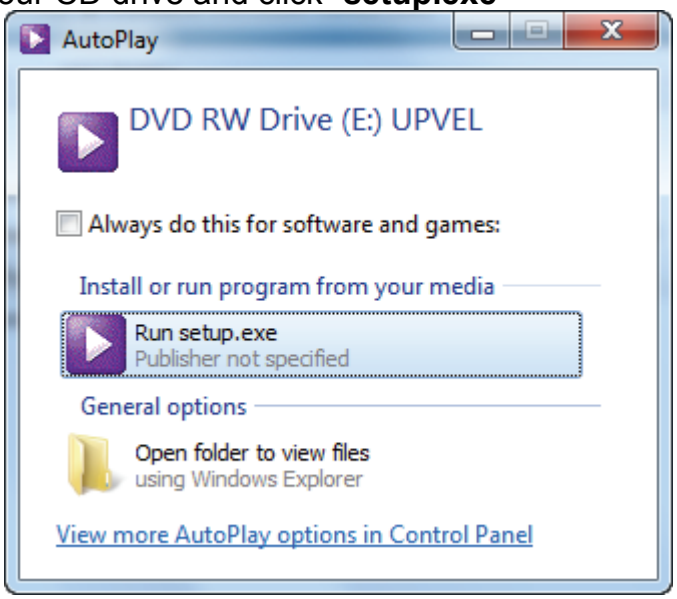
1. Make sure to power on ADSL2+ Combo Router.

2. Make sure that you have disconnected the Ethernet RJ45 cable. Please connect one end of the supplied USB cable to ADSL2+ Combo Router, and connect the other end of USB cable to the Computer.

3. Once USB cable connected to ADSL2+ Combo Router and the following will appear on screen.

4. Please insert the supplied CD into your CD-ROM drive.

5. The CD should auto-start, displaying as below. Please click "**Run setup.exe**" to continue. If your CD does not start automatically go to Windows Explorer, Select your CD drive and click "**setup.exe**"


AutoPlay
DVD RW Drive (E:) UPVEL
Always do this for software and games:
Install or run program from your media
Run setup.exe
Publisher not specified
General options
Open folder to view files
using Windows Explorer
View more AutoPlay options in Control Panel

6. The screen will display the information **" User Account Control"** and click **" Yes"** to continue.
7. Please choose your language and then click button to continue.

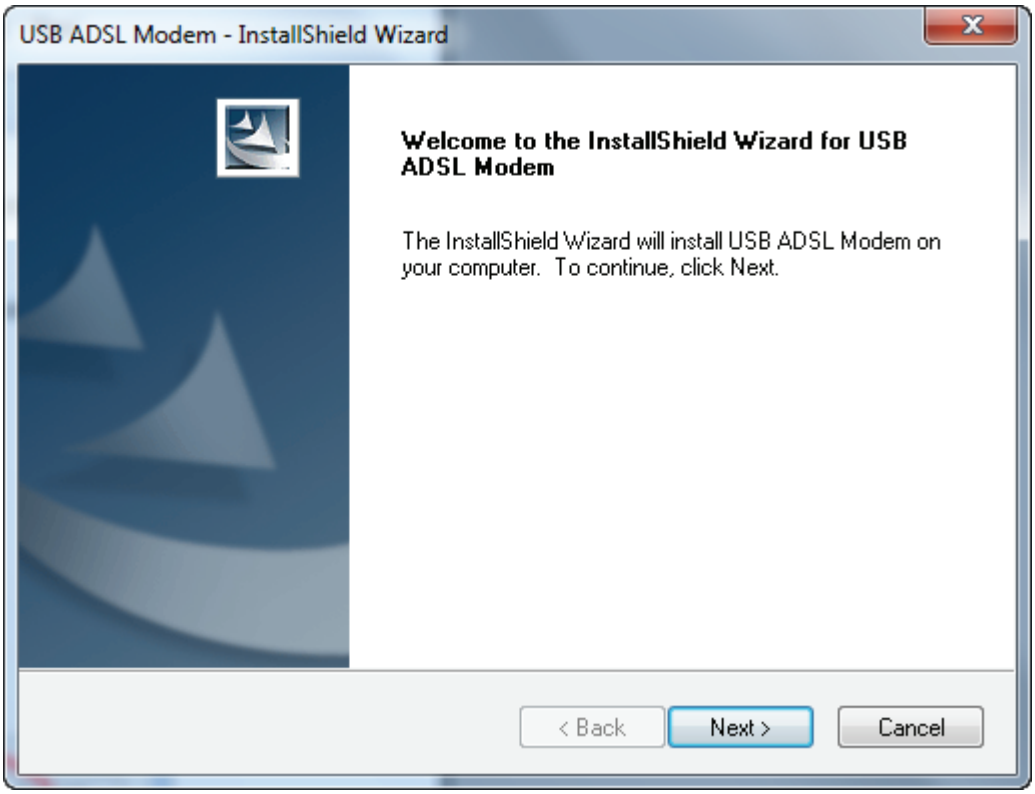
8. To configure the device, please click "**Configuration**".

9. Please click **"Internet Configuration"** to continue.

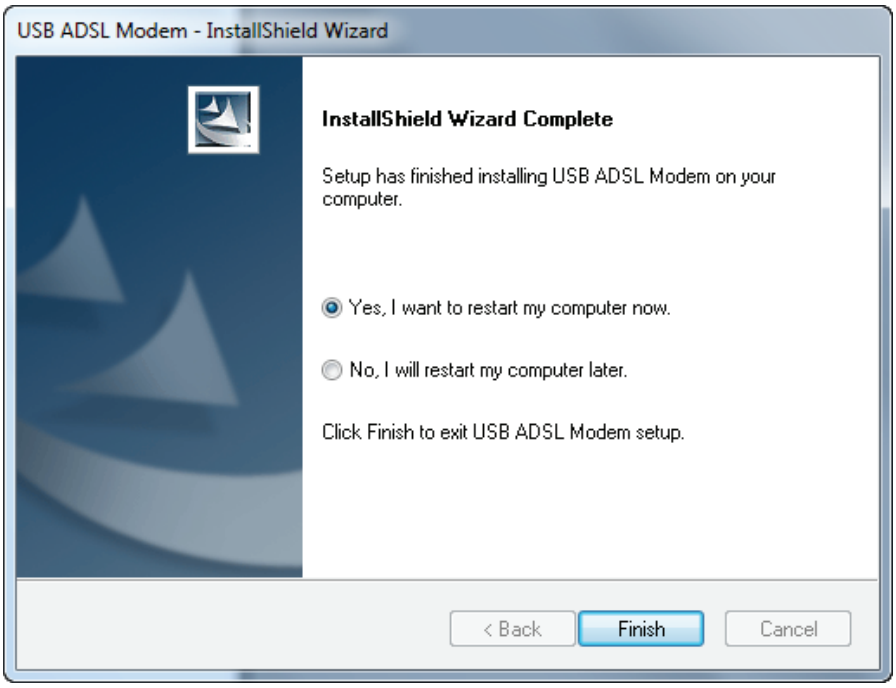
10. Please click **"USB connection"** to continue.

11. Please click **"USB Driver installation"** to continue.

12. Please click **"Next"** to continue. If you have already installed the USB driver, please click **"Cancel"** to exit the installation of USB driver and it will bring you to step 15.

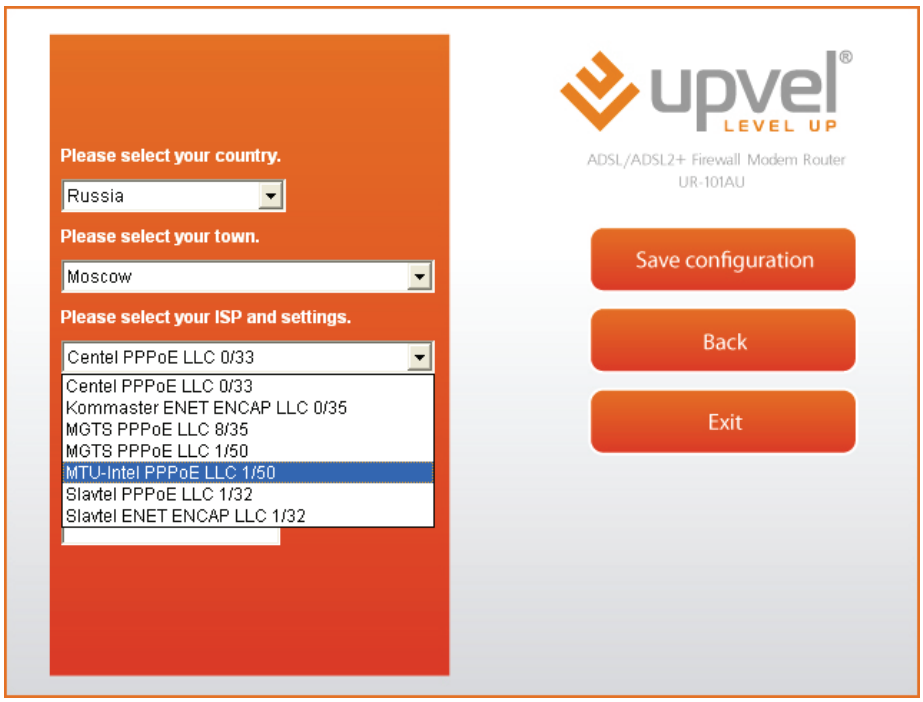

USB ADSL Modem - InstallShield Wizard
Welcome to the InstallShield Wizard for USB ADSL Modem
The InstallShield Wizard will install USB ADSL Modem on your computer. To continue, click Next.
< Back
Next >
Cancel

13. Please click **"Finish"** to complete the USB driver installation.

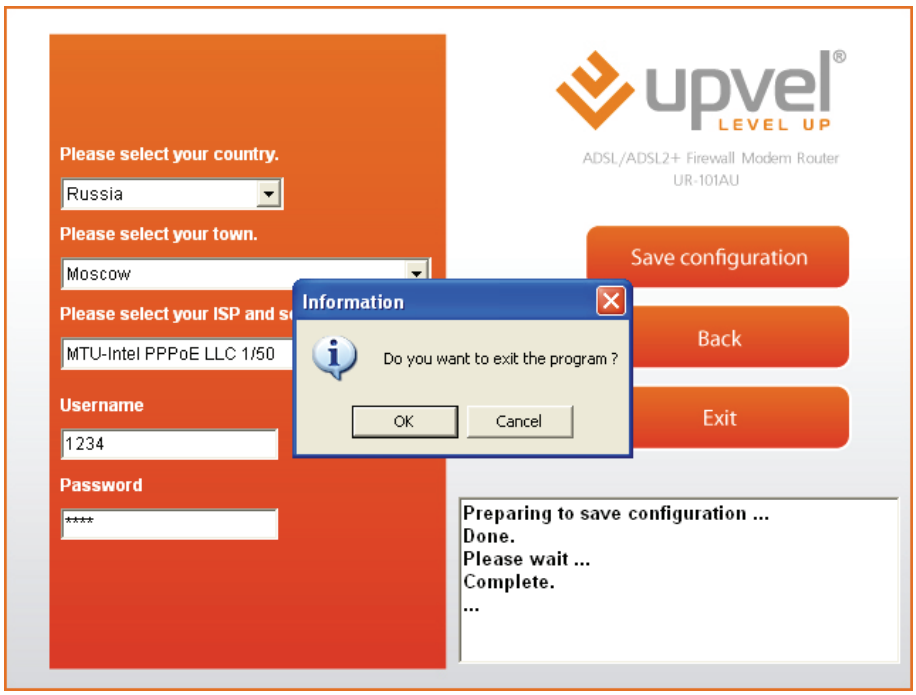

USB ADSL Modem - InstallShield Wizard
InstallShield Wizard Complete
Setup has finished installing USB ADSL Modem on your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Click Finish to exit USB ADSL Modem setup.
< Back
Finish
Cancel

14. Once the computer rebooted completely, please repeate steps above and click **"Cancel"** on Step 12 to exit the installation of USB driver and go straight to Step 15 below.
15. Waiting few seconds and the below screenshot will appear on your screen. Please click **"Next"** to continue.

16. Select your country, town, ISP and settings your ISP (Internet Services Provider) provided, and enter your required settings. Then press "**Save Configuration**". Please wait for about 60 seconds.



17. When the **"Information"** screen pop-up, please click **"OK"** button to exit the program.



You can now access the Internet !

8.0 Configuration of IPTV connection

For Windows 98SE / ME / 2000 / XP / Vista / 7

1. Make sure to power on ADSL2+ Combo Route.

2. Please connect one end of the supplied USB cable to ADSL2+ Combo Router, and connect the other end of USB cable to the Computer.

3. Once USB cable connected to ADSL2+ Combo Router and the following will appear on screen.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Please click “**Cancel**” to eliminate this “**Welcome to the Found New hardware Wizard**”.

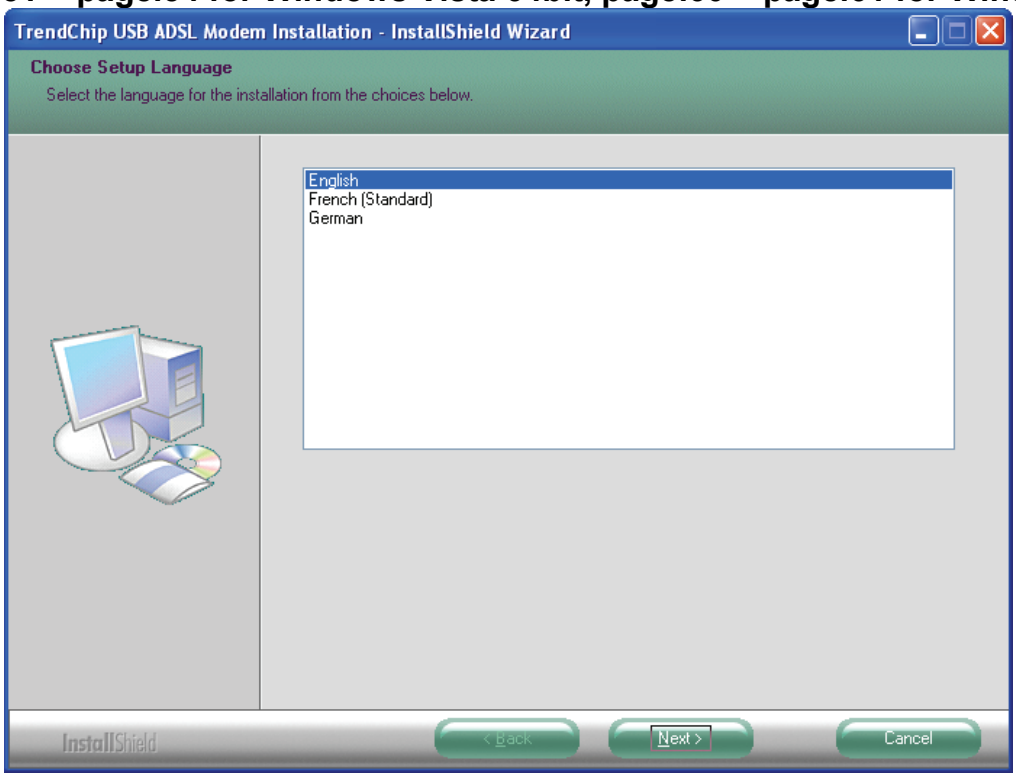
4. Please insert the supplied CD into your CD-ROM drive.
5. The CD should auto-start, displaying the window shown in 6. below. If your CD does not start automatically, go to Windows Explorer, Select your CD drive and click “**setup.exe**”
6. Please choose your language and then click button to continue.

7. To configure the device, please click “**Configuration**”.

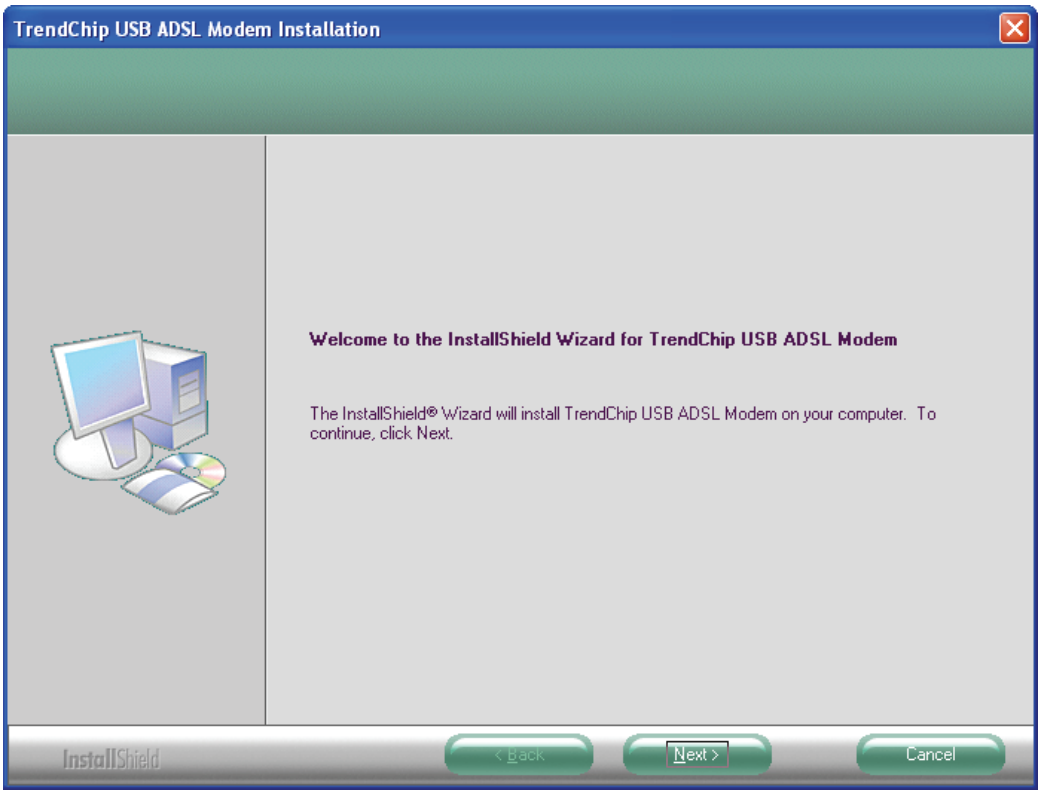
8. Please click **"IPTV Connection"** to continue.

9. Please click **"USB Driver installation"** to continue.

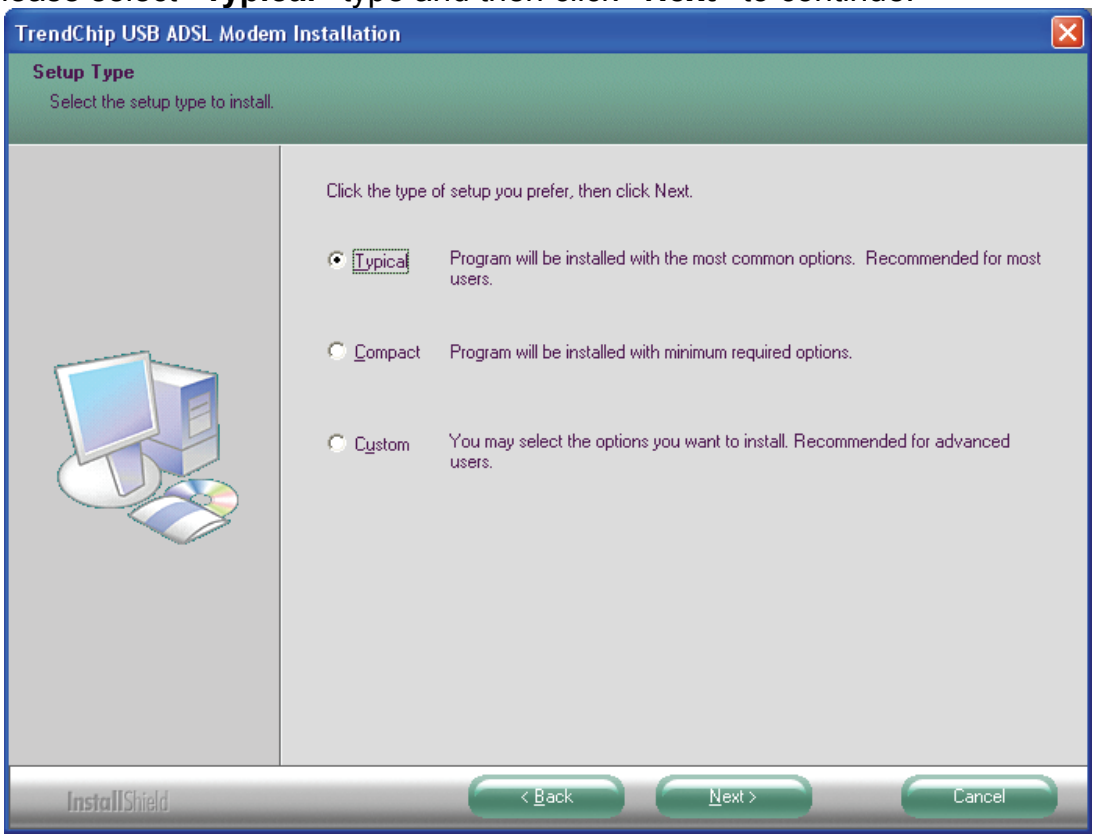
Please choose your language and click **"Next "** to continue. **If you want to install the USB Driver to Windows XP 64bit, Vista, 7 system, please refer to page.34 ~ page.38 for Windows XP 64bit, page.43 ~ page.46 for Windows Vista 32bit, page.51 ~ page.54 for Windows Vista 64bit, page.60 ~ page.61 for Windows 7.**



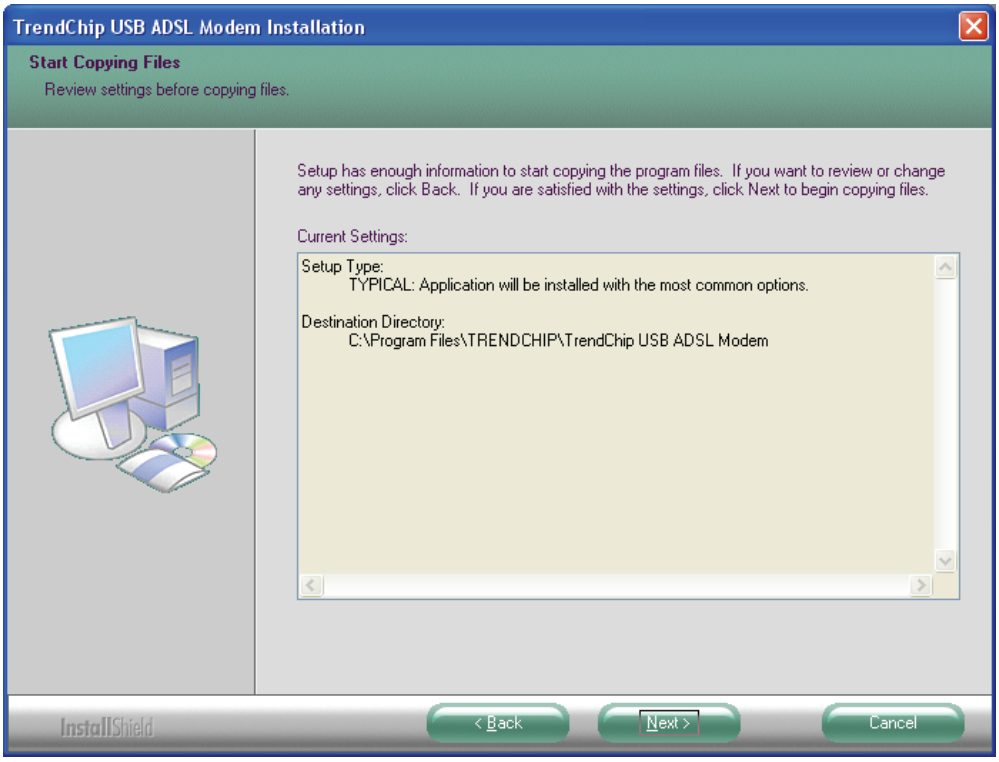
10. Please click **"Next"** to continue.


TrendChip USB ADSL Modem Installation
Welcome to the InstallShield Wizard for TrendChip USB ADSL Modem
The InstallShield® Wizard will install TrendChip USB ADSL Modem on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

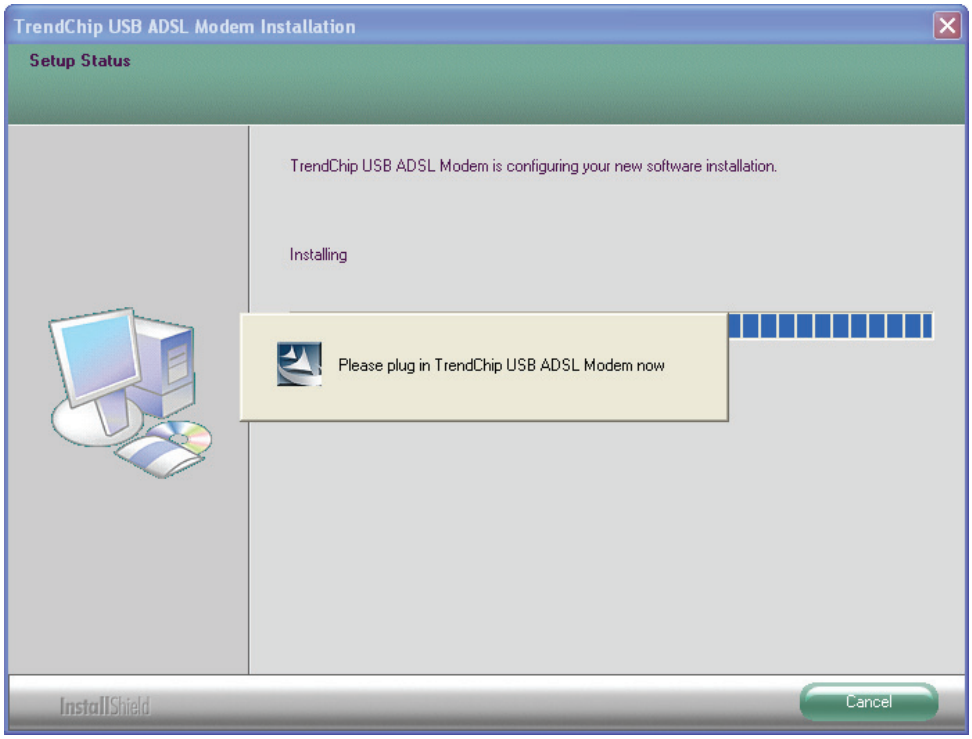
11. Please select **"Typical"** type and then click **"Next"** to continue.


TrendChip USB ADSL Modem Installation
Setup Type
Select the setup type to install.
Click the type of setup you prefer, then click Next.
Typical
Program will be installed with the most common options. Recommended for most users.
Compact
Program will be installed with minimum required options.
Custom
You may select the options you want to install. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

12. Please click **"Next"** to continue.

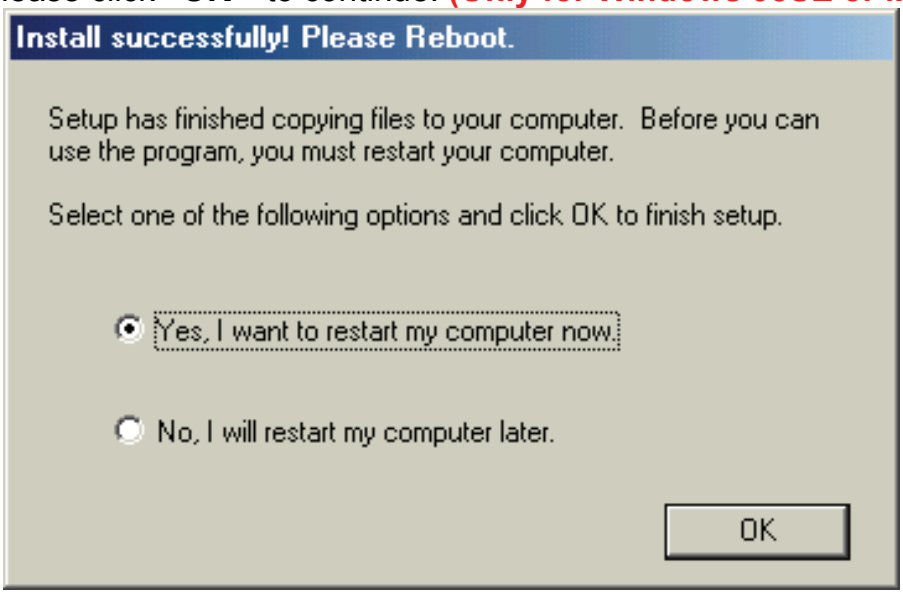

TrendChip USB ADSL Modem Installation
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Setup Type:
TYPICAL: Application will be installed with the most common options.
Destination Directory:
C:\Program Files\TRENDCHIP\TrendChip USB ADSL Modem
InstallShield
< Back
Next >
Cancel

13. USB Driver installation now


TrendChip USB ADSL Modem Installation
Setup Status
TrendChip USB ADSL Modem is configuring your new software installation.
Installing
Please plug in TrendChip USB ADSL Modem now
InstallShield
Cancel

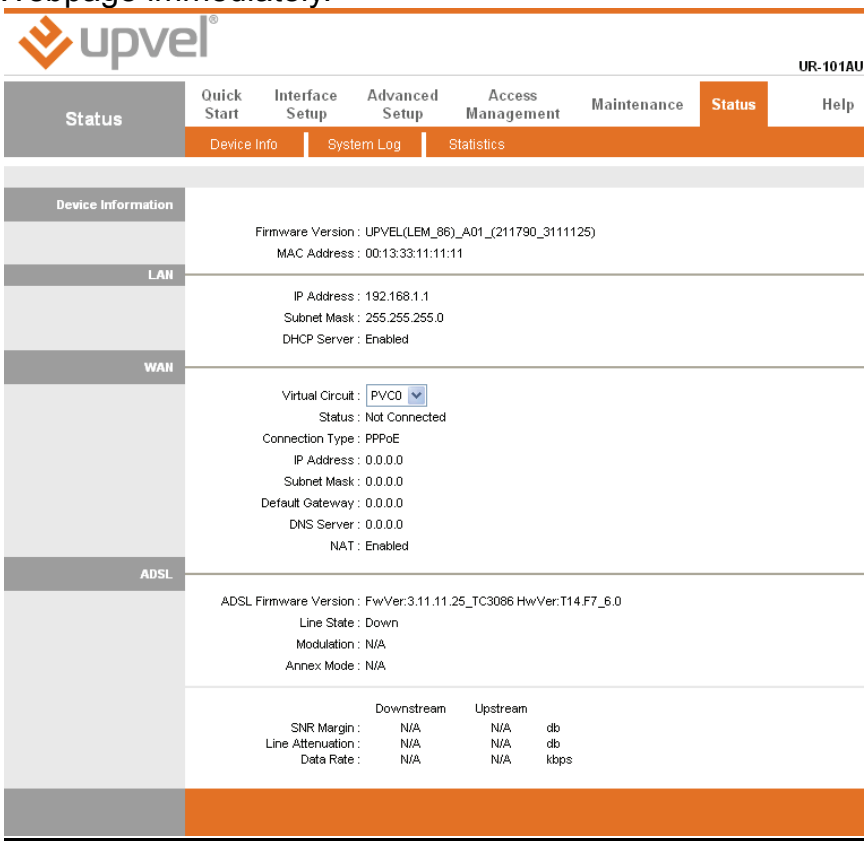
You have already plugged in the USB cable so no need to plug it in again as per the screen request!!

14. Please click **"OK "** to continue. **(Only for Windows 98SE or ME version)**

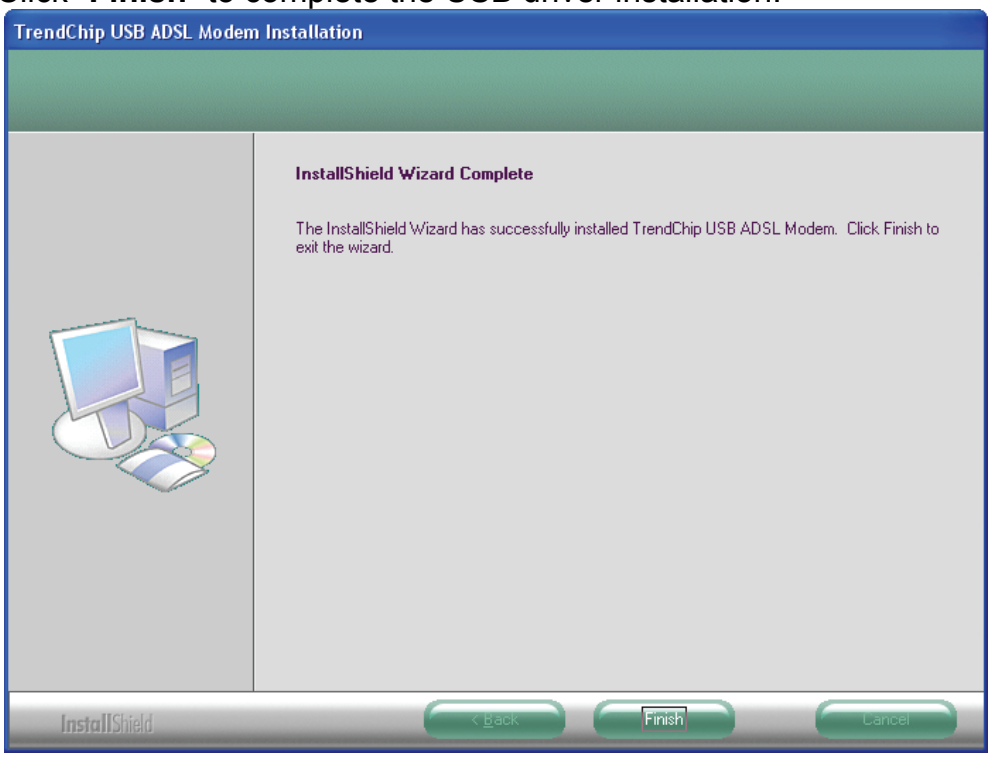

Install successfully! Please Reboot.
Setup has finished copying files to your computer. Before you can use the program, you must restart your computer.
Select one of the following options and click OK to finish setup.
Yes, I want to restart my computer now.
No, I will restart my computer later.
OK

15. Please enter “**admin**” as User name / “**1234**” as password, then click “**OK**”

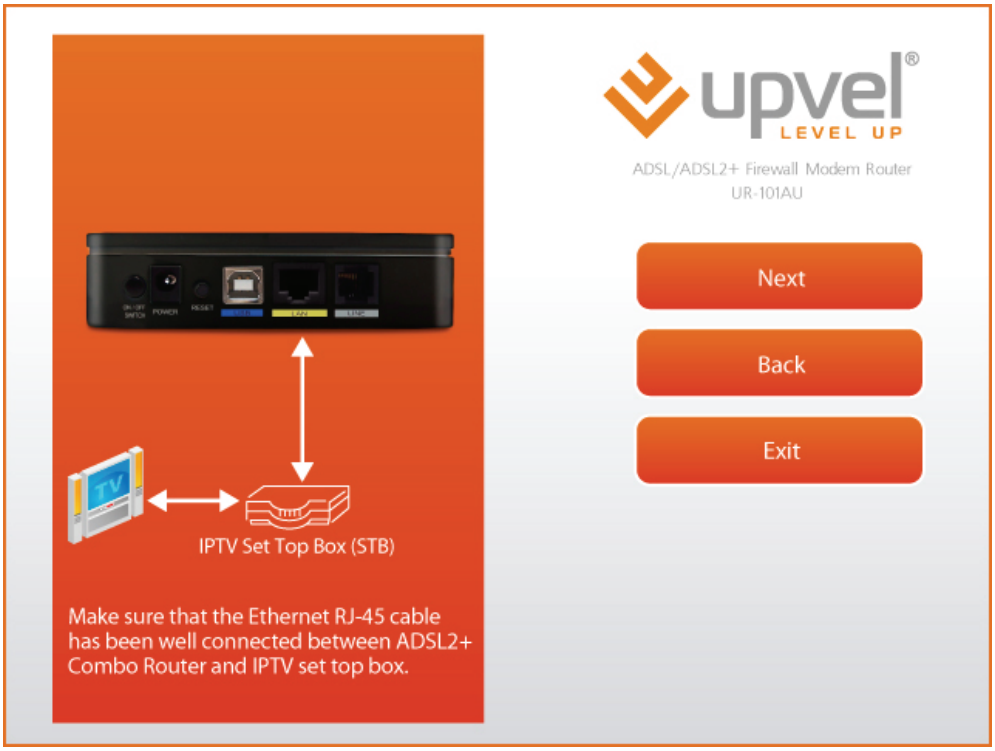
16. Open the Webpage of ADSL2+Combo Router at 192.168.1.1 as below. Close this Webpage immediately.



17. Click "**Finish**" to complete the USB driver installation.

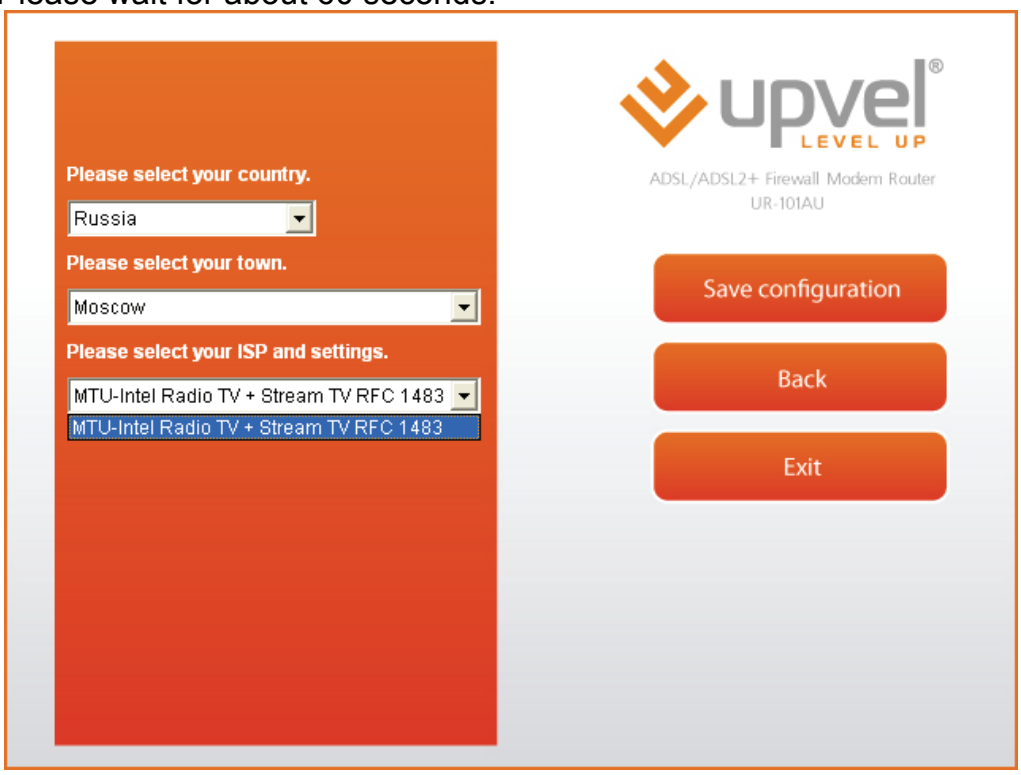

TrendChip USB ADSL Modem Installation
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed TrendChip USB ADSL Modem. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

18. Waiting few seconds and the below screenshot will appear on your screen. Make sure that the RJ-45 cable has been connected as below, please click **"Next"** to continue.

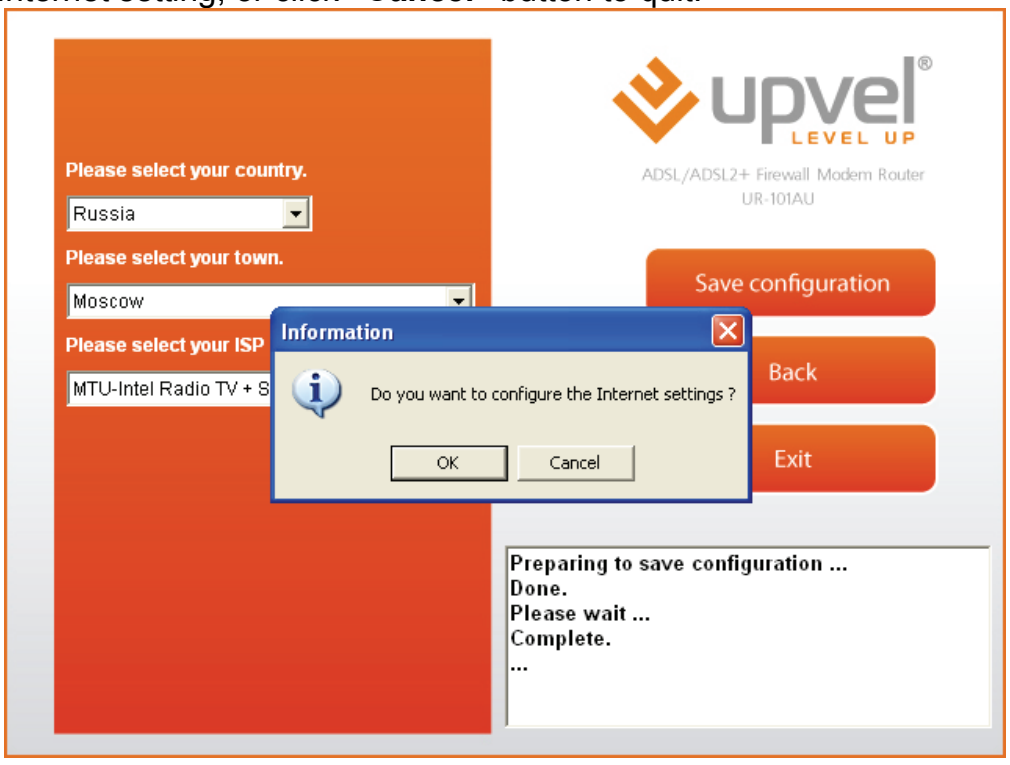

upvel
LEVEL UP
ADSL/ADSL2+ Firewall Modem Router
UR-101AU
Next
Back
Exit
IPTV Set Top Box (STB)
Make sure that the Ethernet RJ-45 cable has been well connected between ADSL2+ Combo Router and IPTV set top box.

19. Please click **"Next"** to continue.

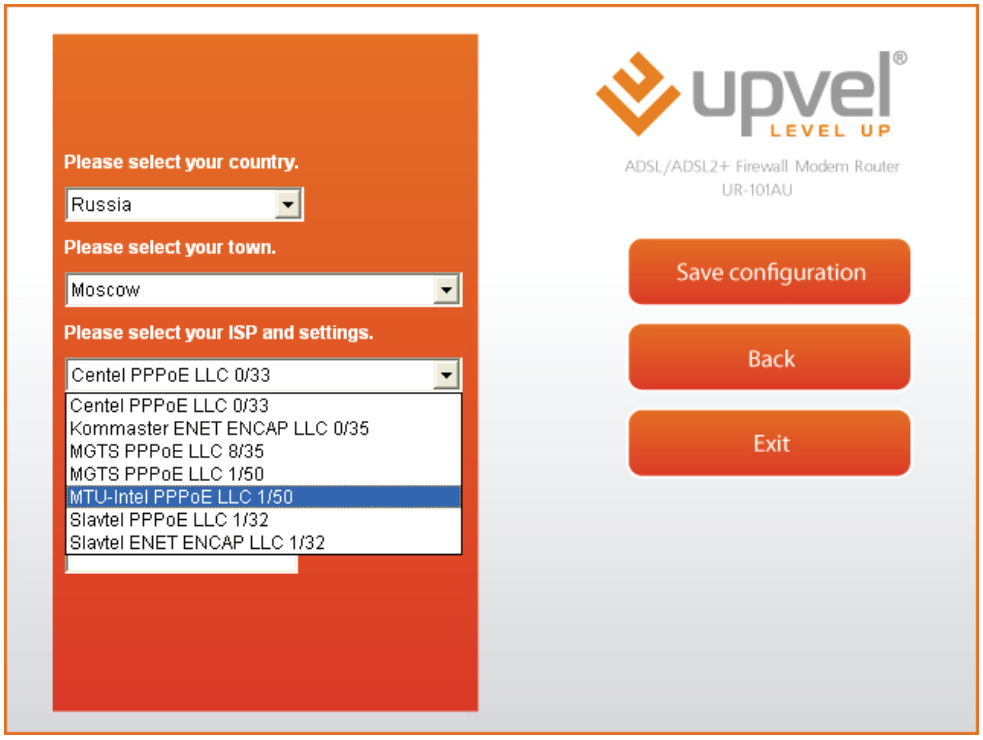
20. Select your country, town, ISP and settings your ISP (Internet Services Provider) provided, and enter your required settings. Then press "**Save Configuration**". Please wait for about 60 seconds.



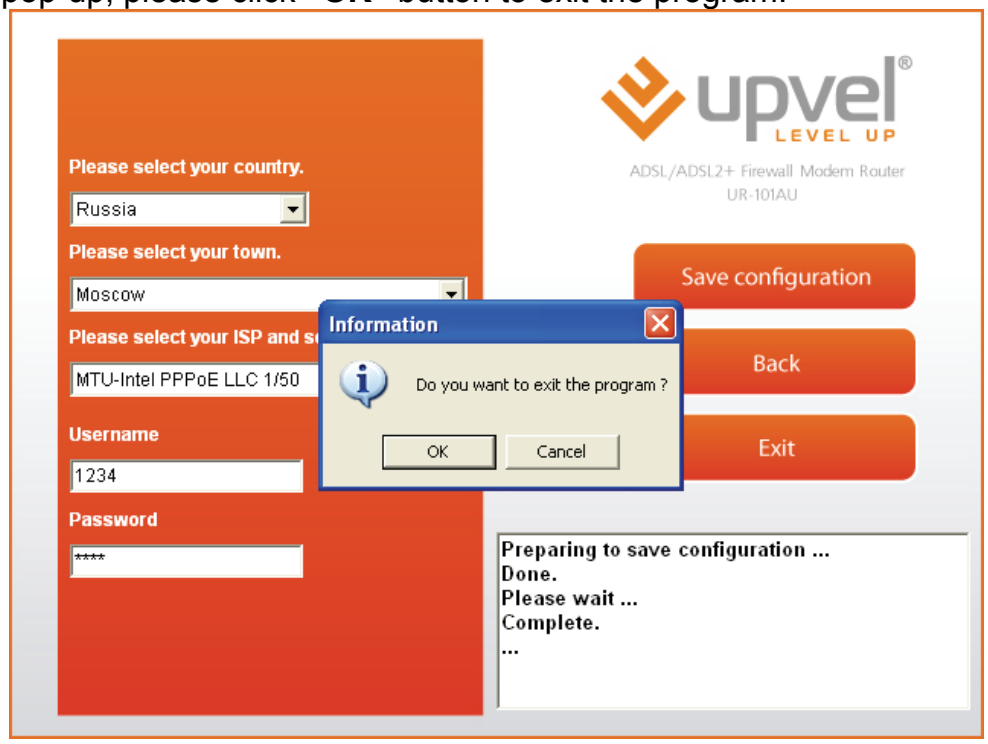
21. When the **"Information"** screen pop-up, please click **"OK"** button, to configure the Internet setting, or click **"Cancel"** button to quit.



22. Select your country, town, ISP and settings your ISP (Internet Services Provider) provided, and enter your required settings. Then press **"Save Configuration"**. Please wait for about 60 seconds.



23. Please click on **"Save configuration"** button. When the **"Information"** screen pop-up, please click **"OK"** button to exit the program.



You can now access the Internet !

9.0 Technology Glossary

10Base-T

An adaptation of the Ethernet standard for Local Area Network (LAN). 10Base-T uses a twisted pair cable with maximum length of 100 meters.

AAL

ATM Adaptation Layer that defines the rules governing segmentation and reassembly of data into cells. Different AAL types are suited to different traffic classes.

Address mask

A bit mask used to select bits from an Internet address for subnet addressing. The mask is 32 bits long and selects the network portion of the Internet address and one or more bits of the local portion. Sometimes called subnet mask.

ADSL

Asymmetric Digital Subscriber Line, as it's name showing, is an asymmetrical data transmission technology with high traffic rate downstream and low traffic rate upstream. ADSL technology satisfies the bandwidth requirement of applications, which demand "asymmetric" traffic, such as web surfing, file download and Video-on-demand (VOD).

ATM

Asynchronous Transfer Mode is a layer 2 protocol supporting high-speed asynchronous data with advanced traffic management and quality of service features.

bps

Bits per second. A standard measurement of digital transmission speeds.

Bridge

A device that connects two or more physical networks and forwards packets between them. Bridges can usually be made to filter packets, that is, to forward only certain traffic. Related devices are: repeaters which simply forward electrical signals from one cable to the other, and full-fledged routers which make routing decisions based on several criteria.

CPE

Customer Premises Equipment, such as ADSL router, USB modem.

DHCP

Dynamic Host Configuration Protocol. Used for assigning dynamic IP address to devices on a network. Used by ISPs for dialup users.

DNS

Domain Name Server, translates domain names into IP addresses to help user recognize and remember. However, the Internet actually runs on numbered IP addresses, DNS servers needs to translate domain names back to their respective IP addresses.

DSL

Digital Line Subscriber (DSL) technology provides high-speed access over twisted copper pair for connection to the Internet, LAN interfaces, and to broadband services such as video-on-demand, distance learning, and video conferencing.

FTP

File Transfer Protocol. The Internet protocol (and program) used to transfer files between hosts.

IPoA (RFC 1577)

Classical IP and ARP over ATM. Considers ATM configured as a Logic IP Sub-network(LIS) to replace Ethernet local LAN segments.

ISP

Internet service provider. A company that allows home and corporate users to connect to the Internet.

LAN

Local area network. A limited distance (typically under a few kilometers or a couple of miles) high-speed network (typically 4 to 100 Mbps) that supports many computers.

MAC

Media Access Control Layer. A sub-layer of the Data Link Layer (Layer 2) of the ISO OSI Model responsible for media control.

MTU

Maximum Transmission Unit

NAT

Network Address Translator as defined by RFC 1631. Enables a LAN to use one set of IP address for internal traffic. A NAT box located where the LAN meets the Internet provides the necessary IP address translation. This helps provide a sort of firewall and allow for a wider address range to be used internally without danger of conflict.

PPP

Point-to-Point-Protocol. The successor to SLIP, PPP provides router-to-router and host-to-network connections over both synchronous and asynchronous circuits.

PPPoA (RFC 2364)

The Point-to-Point Protocol(PPP) provides a standard method for transporting multi-protocol datagrams over point-to-point links. This document describes the use of ATM Adaptation Layer 5 (AAL5) for framing PPP encapsulated packets.

PPPoE (RFC 2516)

This document describes how to build PPP sessions and encapsulate PPP packets over Ethernet. PPP over Ethernet (PPPoE) provides the ability to connect a network of hosts over a simple bridging access device to a remote Access Concentrator.

PVC

Permanent Virtual Circuit. Connection-oriented permanent leased line circuit between end-stations on a network over a separate ATM circuit.

RFC

Request for Comments. The document series, begun in 1969, which describes the Internet suite of protocols and related experiments. Not all RFCs describe Internet standards, but all Internet standards are written up as RFCs

RFC 1483

Multi-protocol encapsulation over AAL-5. Two encapsulation methods for carrying network interconnect traffic over ATM AAL-5. The first method allows multiplexing of multiple protocols over a single ATM virtual circuit. The protocol of a carried PDU is identified by prefixing the PDU by an IEEE 802.2 Logical Link Control (LLC) header. This method is in the following called "LLC Encapsulation". The second method does higher-layer protocol multiplexing implicitly by ATM Virtual Circuits (VCs). It is in the following called "VC Based Multiplexing".

Router

A system responsible for making decisions about which of several paths network (or Internet) traffic will follow. To do this, it uses a routing protocol to gain information about the network and algorithms to choose the best route based on several criteria known as "routing metrics.

Spanning Tree

Spanning-Tree Bridge Protocol (STP). Part of an IEEE standard. A mechanism for detecting and preventing loops from occurring in a multi-bridged environment. When bridges connect three or more LAN segments, a loop can occur. Because a bridge forwards all packets that are not recognized as being local, some packets can circulate for long periods of time, eventually degrading system performance. This algorithm ensures only one path connects any pair of stations, selecting one bridge as the 'root' bridge, with the highest priority one as identifier, from which all paths should radiate.

TELNET

The virtual terminal protocol in the Internet suite of protocols. Allows users of one host to log into a remote host and act as normal terminal users of that host.

VCI

Virtual Circuit Identifier. Part of the ATM cell header, a VCI is a tag indicating the channel over which a cell will travel. The VCI of a cell can be changed as it moves between switches via Signaling.

VPI

Virtual Path Identifier. Part of the ATM cell header, a VPI is a pipe for a number of Virtual Circuits.

WAN

Wide area network. A data communications network that spans any distance and is usually provided by a public carrier (such as a telephone company or service provider)

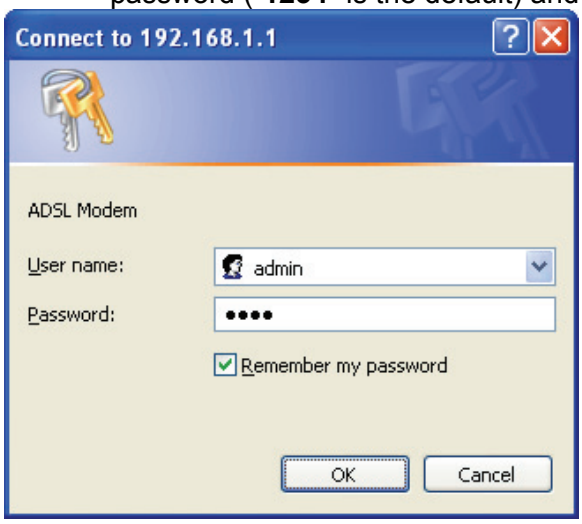
10.0 Introduction of the Web Configuration

10.1 Web Configuration Overview

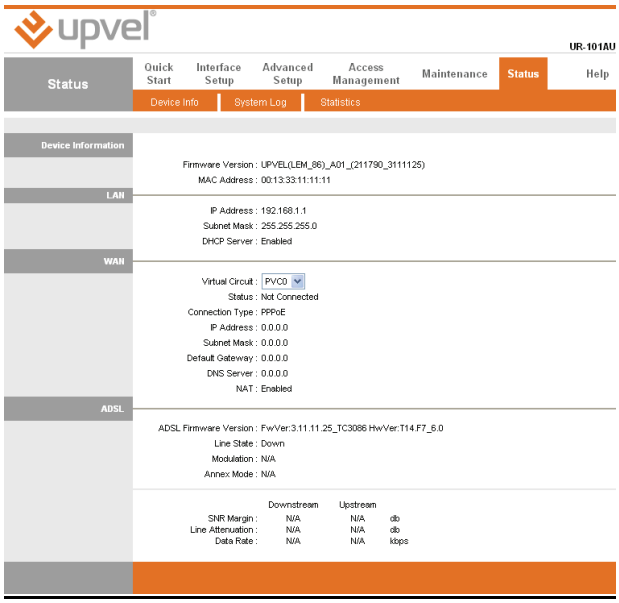
The embedded web configuration allows you to manage ADSL2+ Combo Router from anywhere through a browser such as Microsoft Internet Explorer or Netscape Navigator. Use Internet Explorer 6.0 and later or Netscape Navigator 7.0 and later versions with JavaScript enabled. It is recommended that you set your screen resolution to 1024 by 768 pixels

10.2 Accessing ADSL2+ Combo Router Web Configuration

Step 1. Make sure your ADSL2+ Combo Router is properly connected
Step 2. Prepare your computer/computer network to connect to the ADSL2+ Combo Router
Step 3. Launch your web browser.
Step 4. Type "192.168.1.1" .
Step 5. An Enter Network Password window displays. Enter the user name ("**admin**" is the default), password ("**1234**" is the default) and click OK.



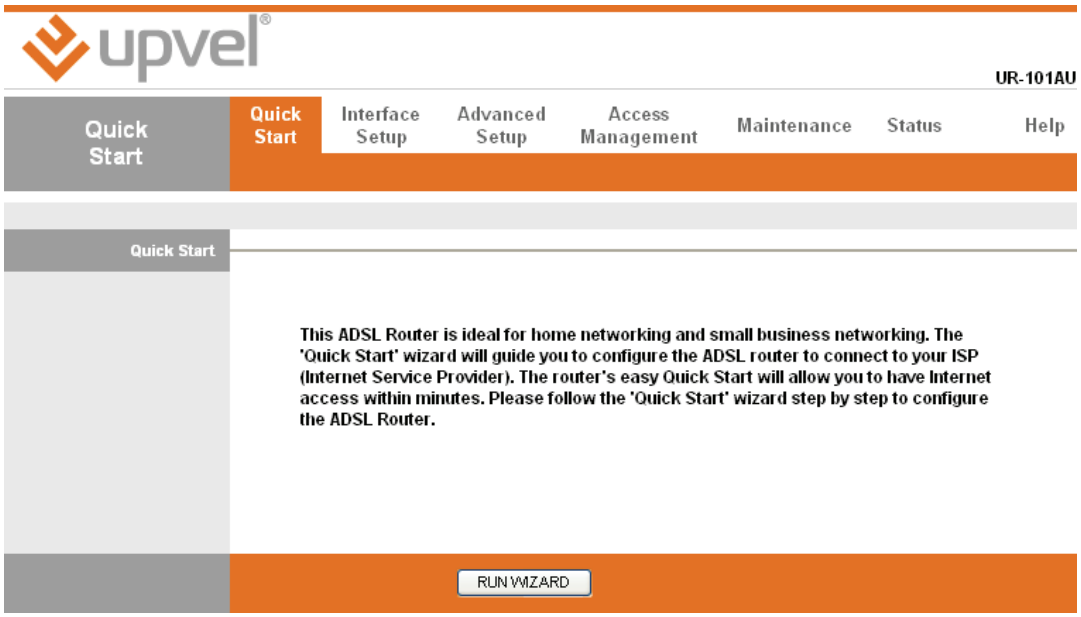
Step 6. You should now see the Site Map screen.



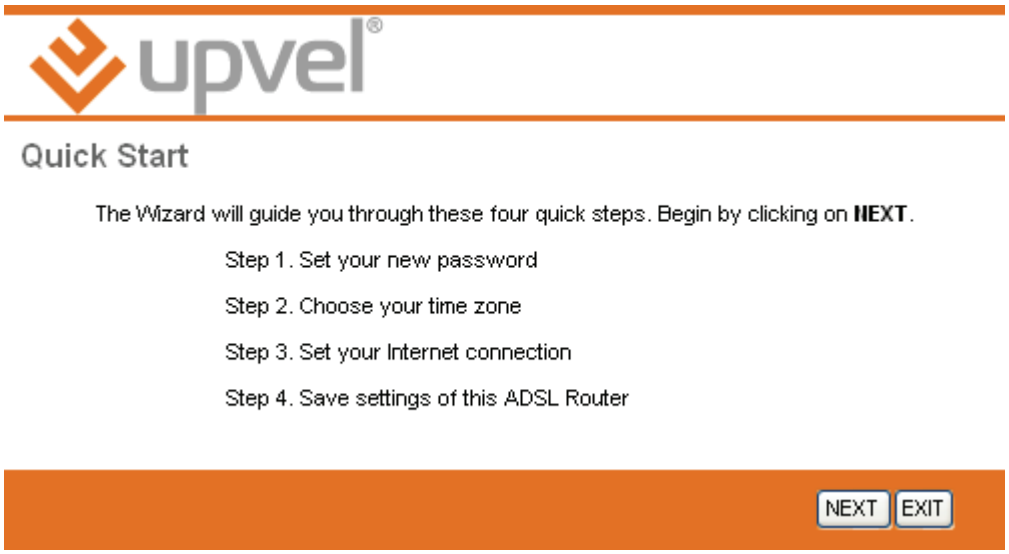
Quick Start Guide

You can use "**Quick Start**" to setup the router as follows, and the router will connect to the Internet via ADSL line.

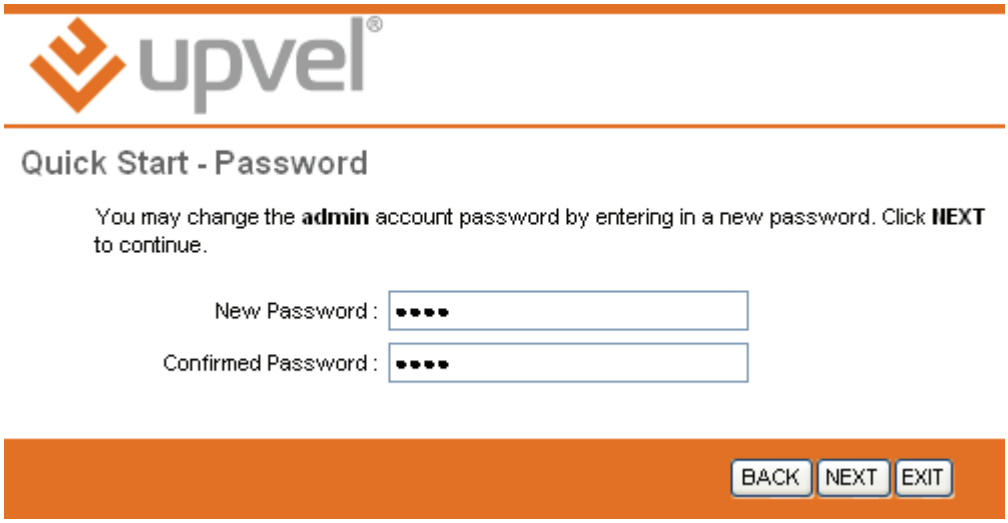
Click "**Quick Start**" to get into the quick setup procedures.


upvel
UR-101AU
Quick Start
Quick Start
Interface Setup
Advanced Setup
Access Management
Maintenance
Status
Help
Quick Start
This ADSL Router is ideal for home networking and small business networking. The 'Quick Start' wizard will guide you to configure the ADSL router to connect to your ISP (Internet Service Provider). The router's easy Quick Start will allow you to have Internet access within minutes. Please follow the 'Quick Start' wizard step by step to configure the ADSL Router.
RUN WIZARD

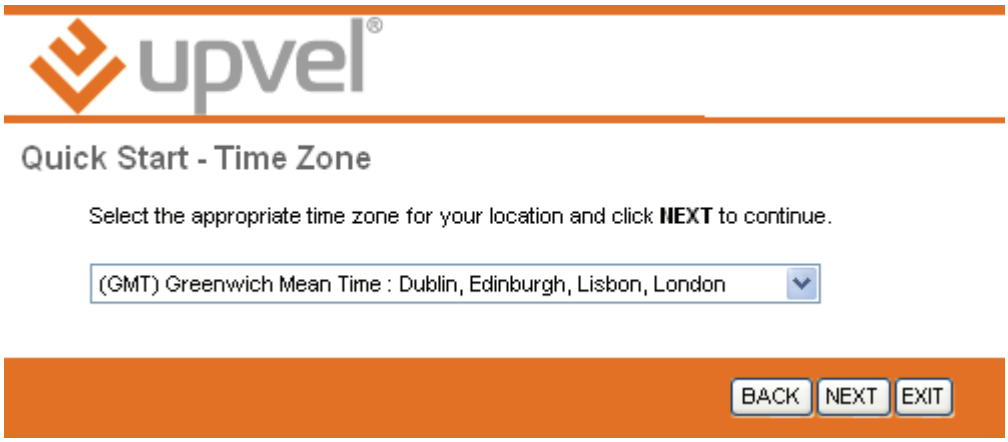
Click "**RUN WIZARD**" to start up this procedure.


upvel
Quick Start
The Wizard will guide you through these four quick steps. Begin by clicking on NEXT.
Step 1. Set your new password
Step 2. Choose your time zone
Step 3. Set your Internet connection
Step 4. Save settings of this ADSL Router
NEXT
EXIT

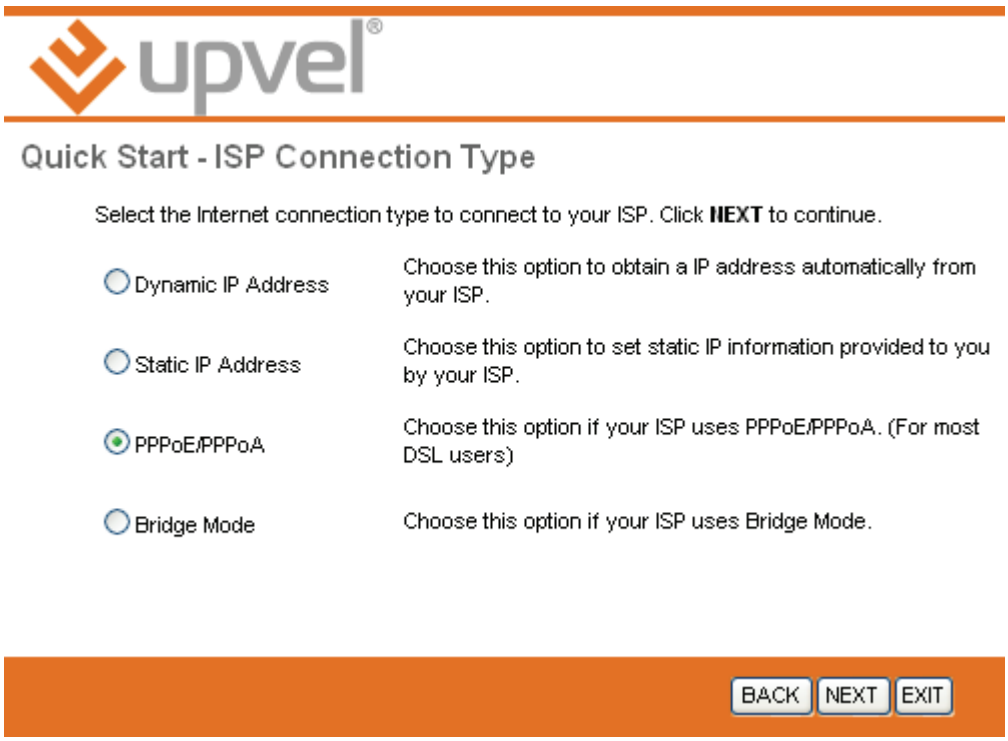
Step 1 – Please click "**Next**" to setup your new administrator's password.


Quick Start - Password
You may change the admin account password by entering in a new password. Click NEXT to continue.
New Password :
Confirmed Password :
BACK
NEXT
EXIT

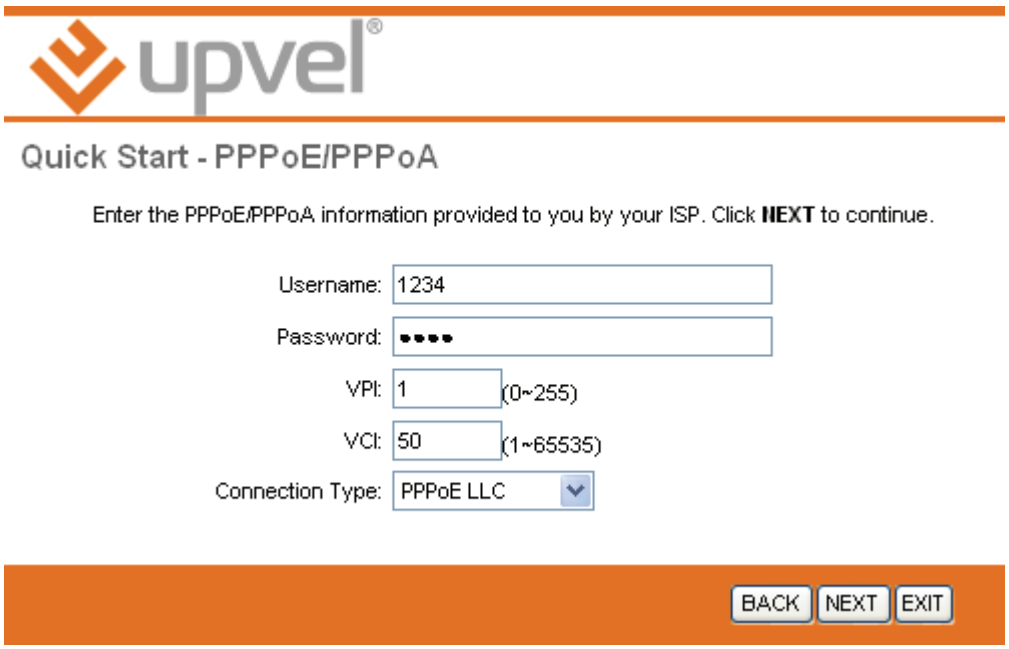
Step 2 – Please click "**Next**" to setup your time zone.


Quick Start - Time Zone
Select the appropriate time zone for your location and click NEXT to continue.
(GMT) Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London
BACK
NEXT
EXIT

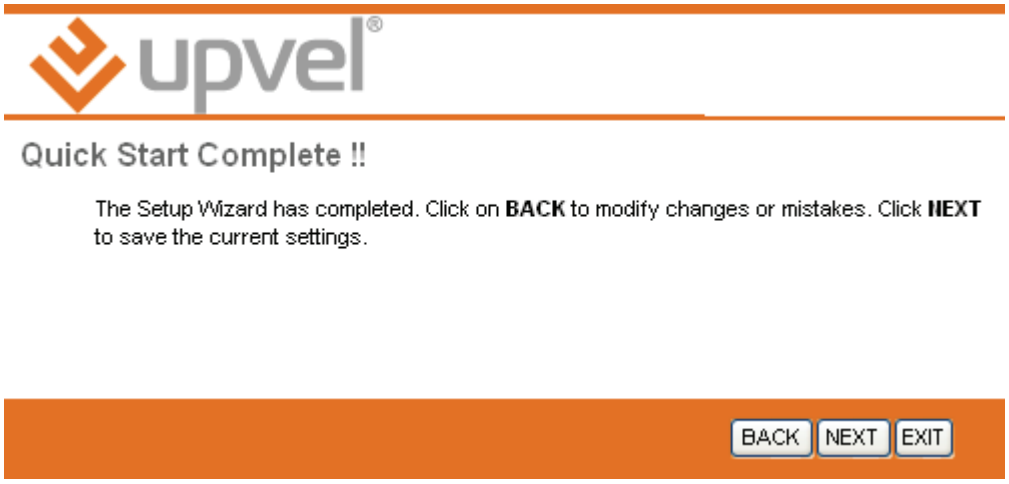
Step 3 – Please click "**Next**" to setup your Internet connection type. You can have this information from your Internet Service Provider.


Quick Start - ISP Connection Type
Select the Internet connection type to connect to your ISP. Click NEXT to continue.
Dynamic IP Address
Choose this option to obtain a IP address automatically from your ISP.
Static IP Address
Choose this option to set static IP information provided to you by your ISP.
PPPoE/PPPoA
Choose this option if your ISP uses PPPoE/PPPoA. (For most DSL users)
Bridge Mode
Choose this option if your ISP uses Bridge Mode.
BACK
NEXT
EXIT

Step 4 - Enter the connection information provided by your ISP and click "**Next** ".



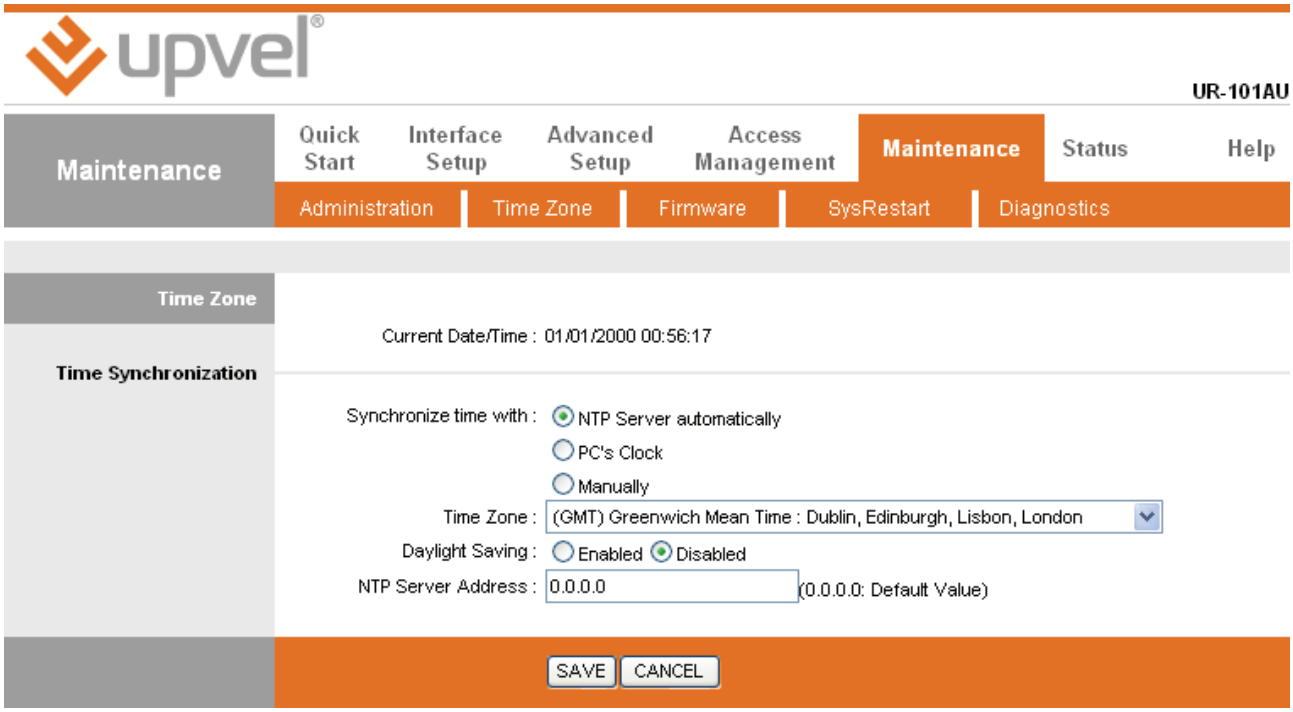
Step 5 - Enter the connection information provided by your ISP and click "**Next** ".


Quick Start Complete !!
The Setup Wizard has completed. Click on BACK to modify changes or mistakes. Click NEXT to save the current settings.
BACK
NEXT
EXIT

Step 6 – Please click "**CLOSE** " to finish Quick Start.

System Time

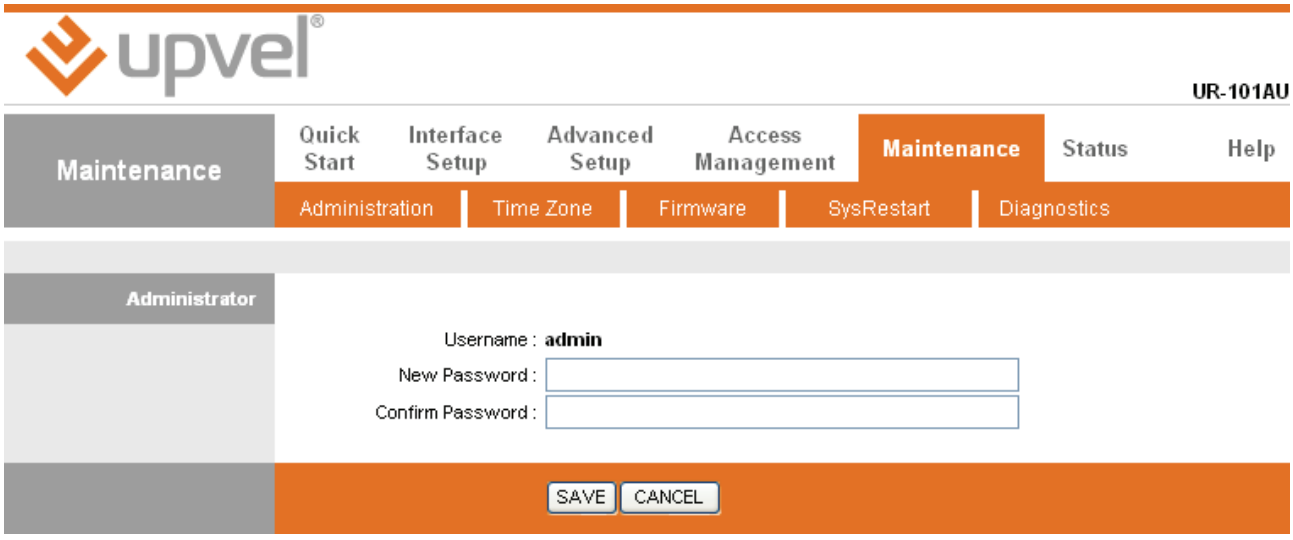
Go to **Maintenance->Time Zone** and select system time as you wish.



Connecting to a Simple Network Time Protocol (SNTP) server allows the router to synchronize the system clock to the global Internet.
The synchronized clock in the router is used to recorded the security log and control client filtering.

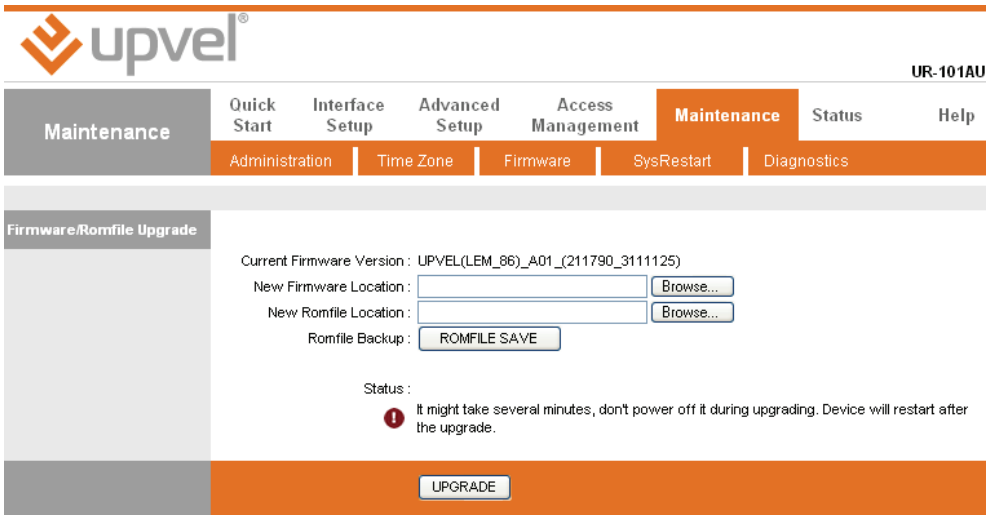
Admin Setting

Go to **Maintenance-> Administration** to set a new username and password to restrict management access to the router.
The default is **admin (Username)** and **admin (Password)**



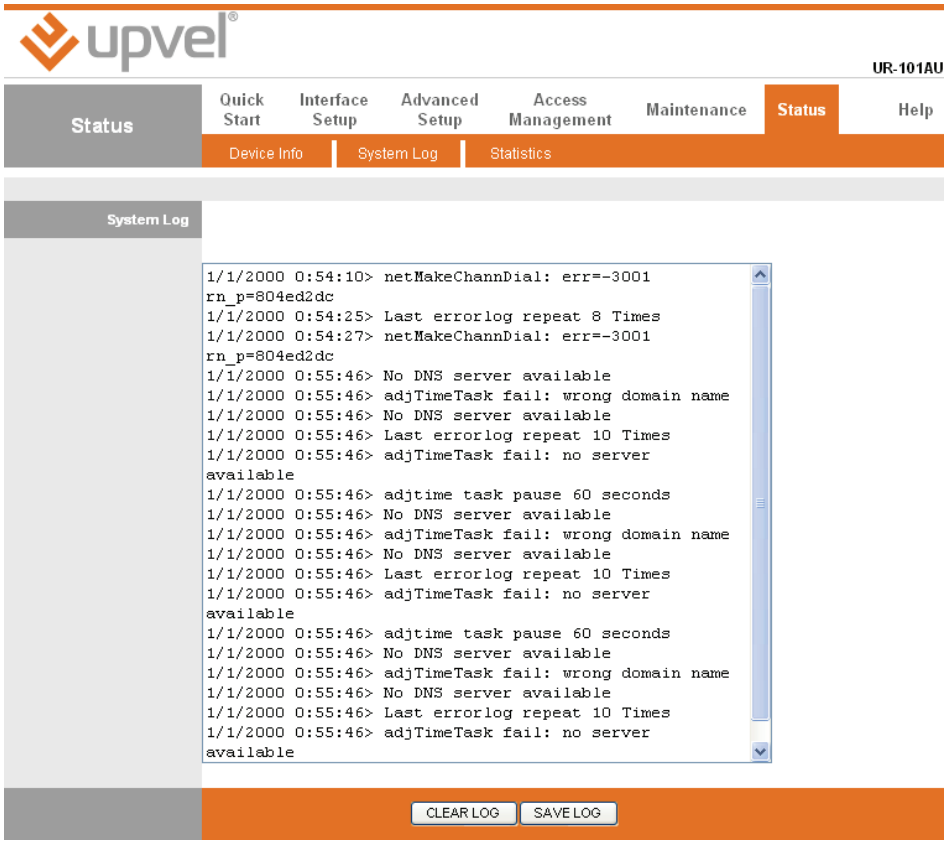
Firmware Update

Go to **Maintenance -> Firmware** to upgrade the firmware. The new firmware for your router can improve functionality and performance.
Enter the path and name of the upgrade file then click the **UPGRADE** button below. You will be prompted to confirm the upgrade.



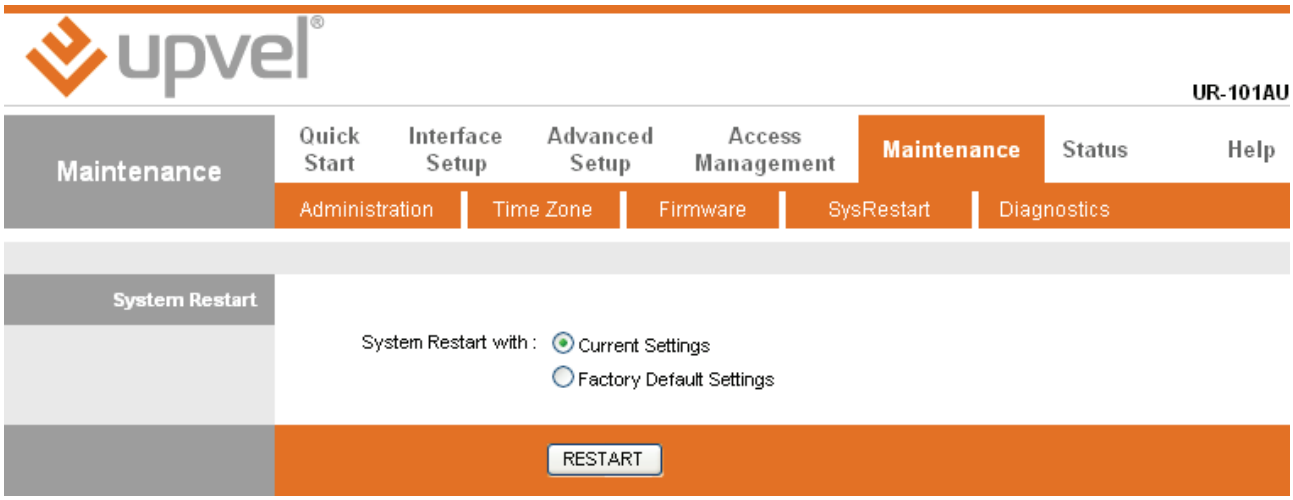
System Log

Go to **Status -> System Log** and you can see the system log file. Click "**Save Log**" to save system log file.



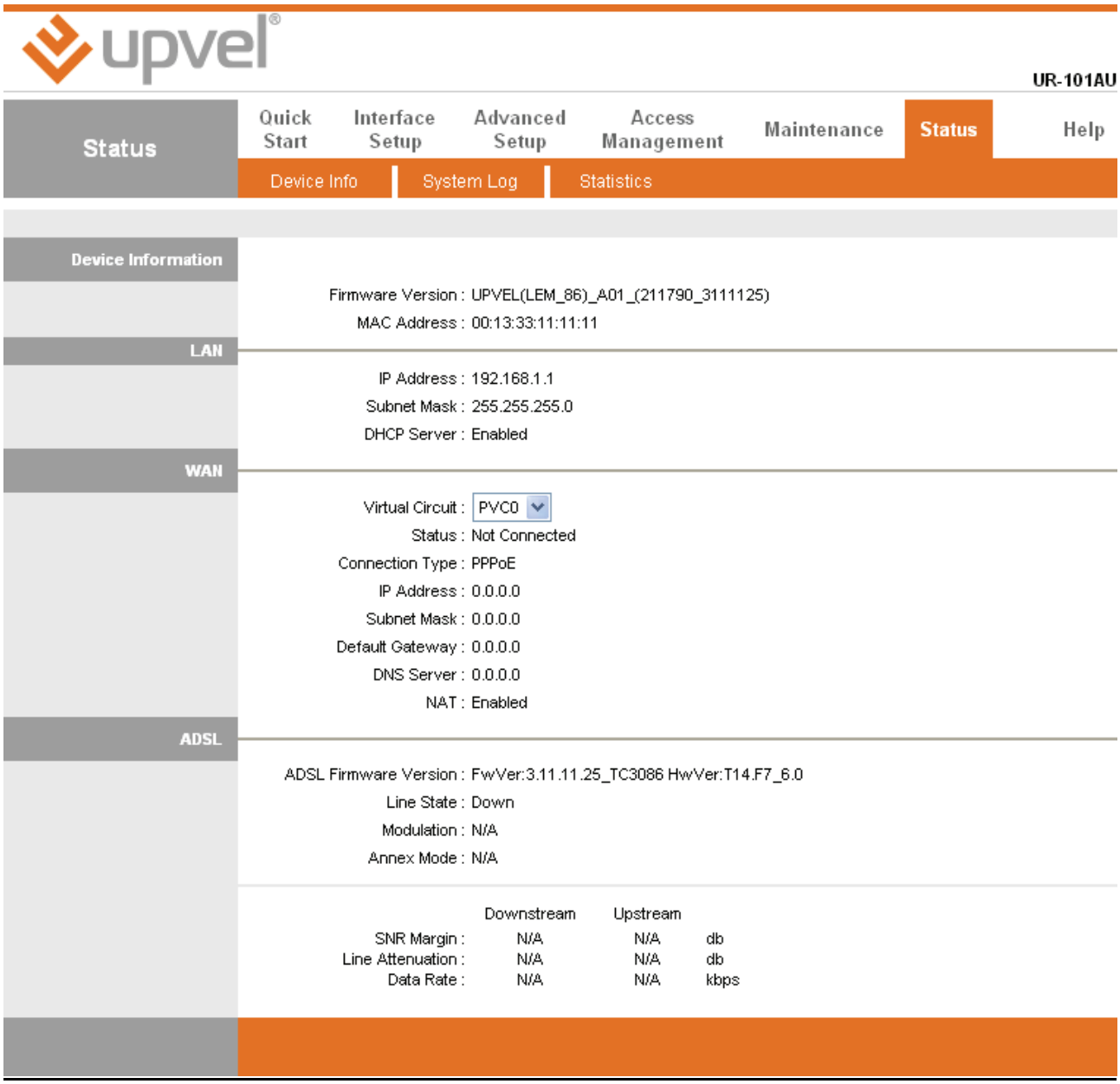
System Reset

Go to **Maintenance -> SysRestart** to restart your system.In the event that the router stops responding correctly or in some way stops functioning, you can perform a reset. Your settings will not be changed. To perform the reset, select "**Current Setting**" and click on the "**RESTART**" button below. The router will reboot with current setting. Select "**Factory Default Setting**" and click on the "**RESTART**" button, the router will reboot with factory default setting.



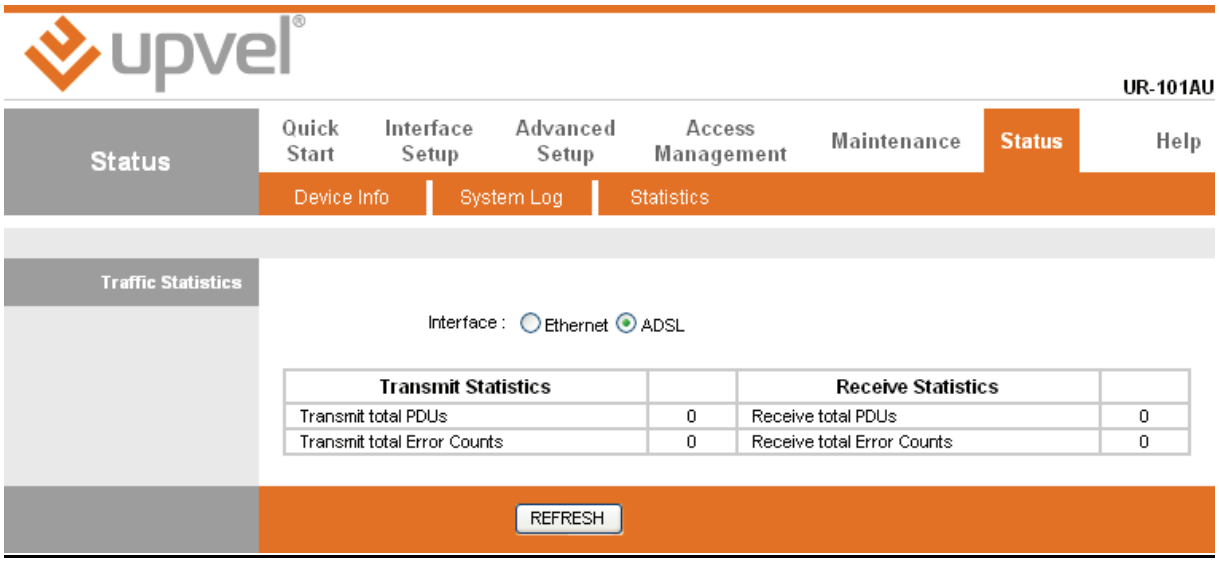
ADSL Status

Go to **Status->Device Info**. The 'ADSL Line Status' enables you to check the status of your ADSL connection including how fast data is being transferred.



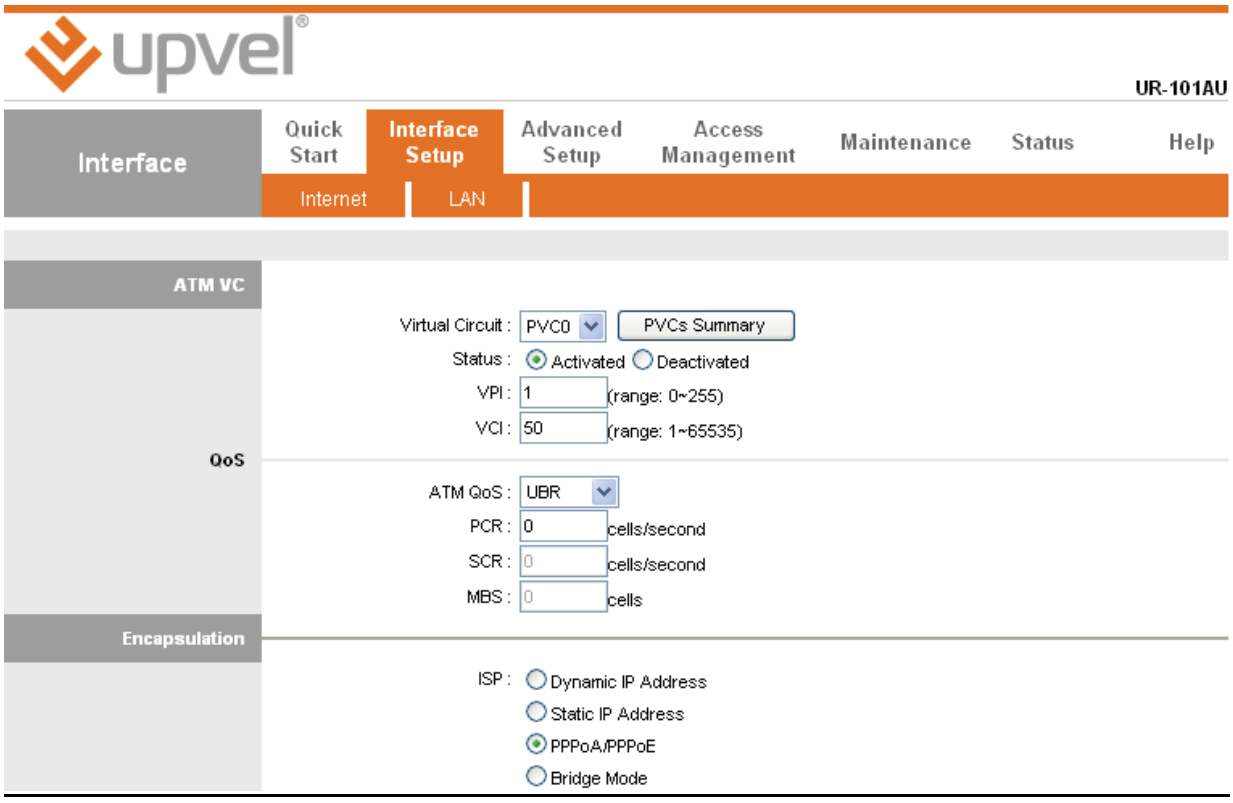
ADSL Statistics

Go to **Status-> Statistics** and select **ADSL** interface. You can see the traffic Statistics of ADSL interface.



VC Configuration

Go to **Interface Setup -> Internet**. To add or delete ADSL VC configuration, these information provide by ISP.



WAN Configuration

Go to **Interface Setup -> Internet**. The router can be connected to your service provider in any of the following ways.

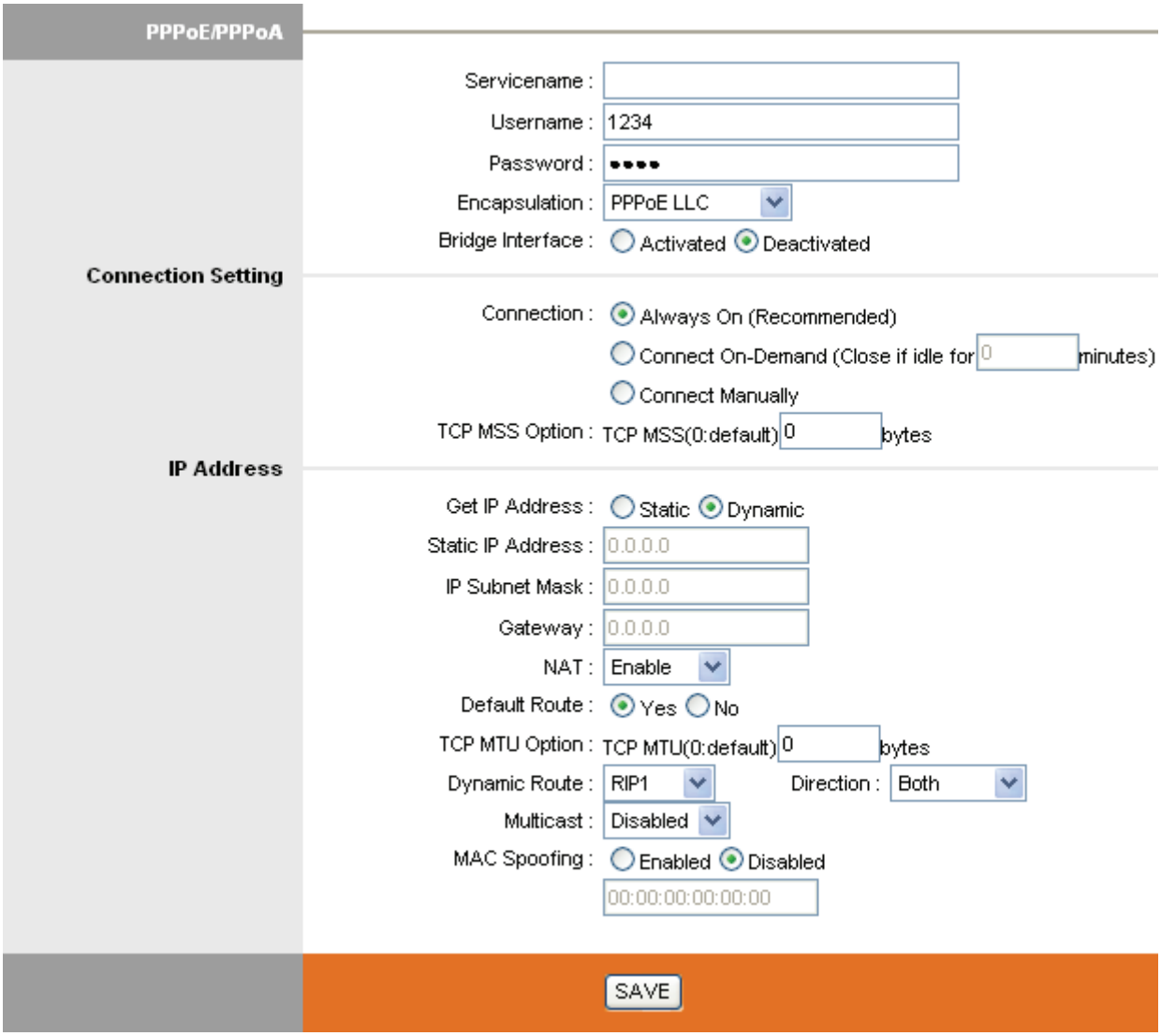
Dynamic IP Address: Obtain an IP address automatically from your service provider.

Static IP Address: Uses a static IP address. Your service provider gives a static IP address to access Internet services.

PPPoE: PPP over Ethernet is a common connection method used for xDSL

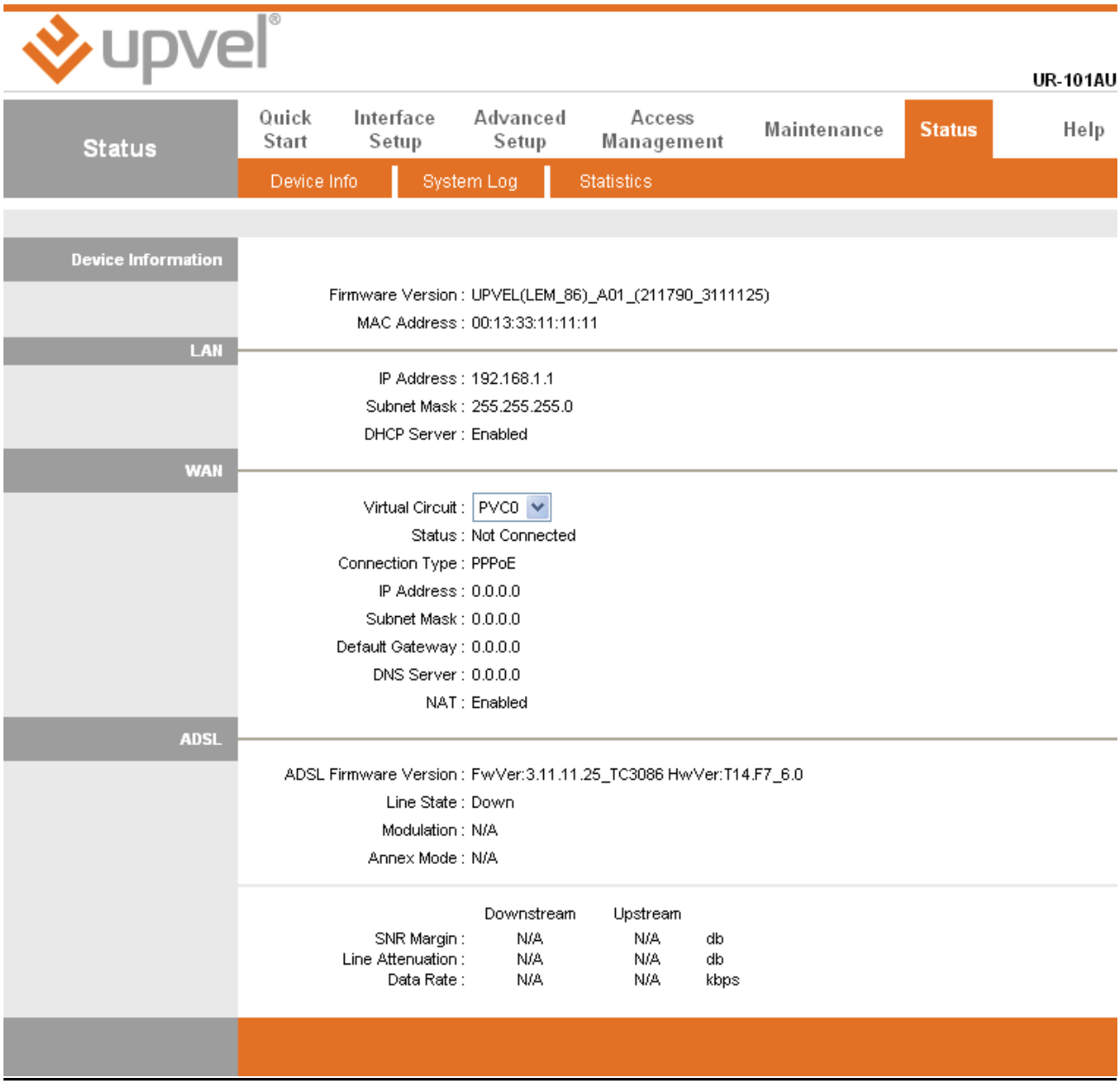
PPPoA: PPP over ATM is a common connection method used for xDSL

Bridge: Bridge mode is a common connection method used for xDSL modem.


PPPoE/PPPoA
Servicename :
Username : 1234
Password : ••••
Encapsulation : PPPoE LLC
Bridge Interface : Activated Deactivated
Connection Setting
Connection : Always On (Recommended)
Connect On-Demand (Close if idle for 0 minutes)
Connect Manually
TCP MSS Option : TCP MSS(0:default) 0 bytes
IP Address
Get IP Address : Static Dynamic
Static IP Address : 0.0.0.0
IP Subnet Mask : 0.0.0.0
Gateway : 0.0.0.0
NAT : Enable
Default Route : Yes No
TCP MTU Option : TCP MTU(0:default) 0 bytes
Dynamic Route : RIP1 Direction : Both
Multicast : Disabled
MAC Spoofing : Enabled Disabled
00:00:00:00:00:00
SAVE

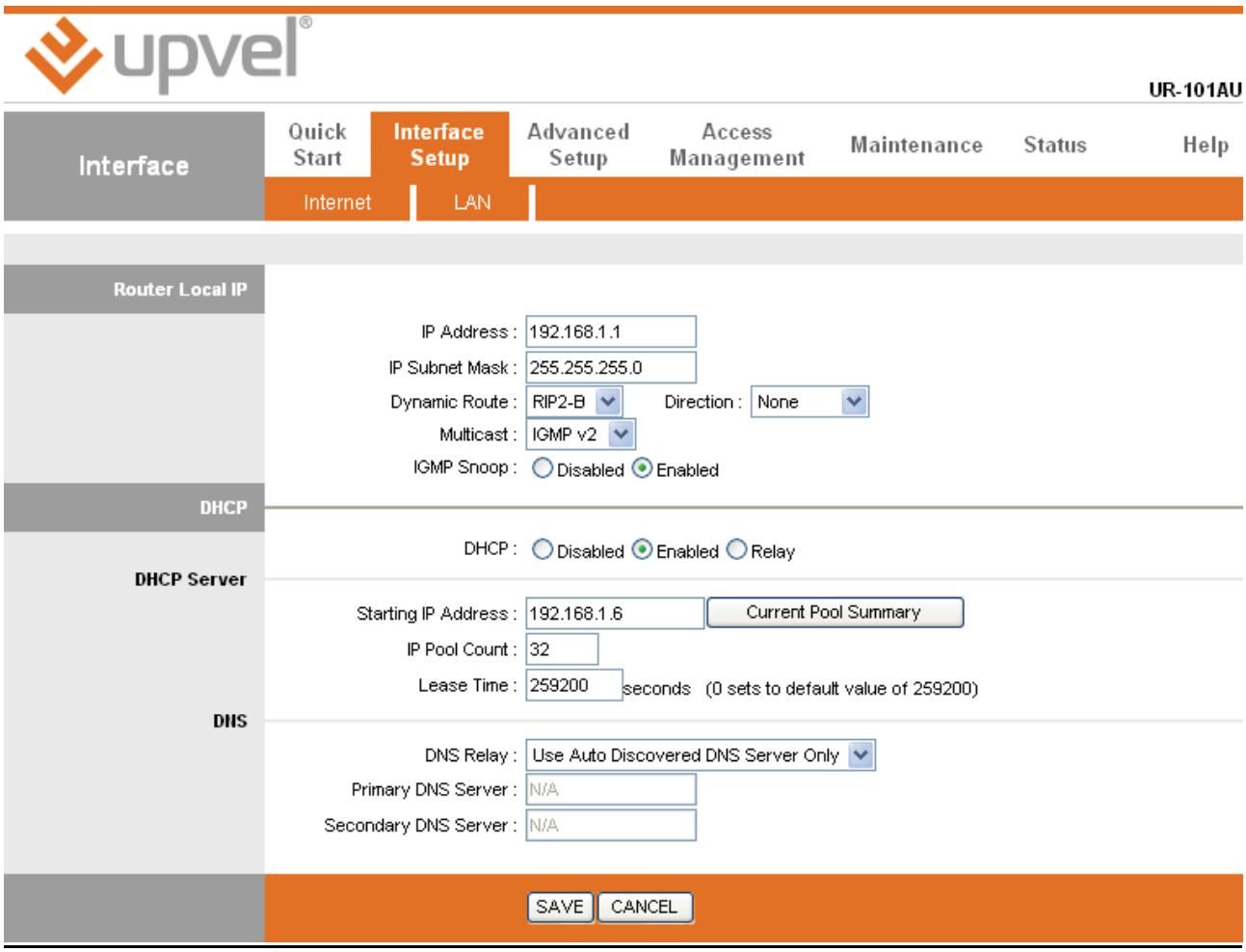
WAN Status

Go to **Status -> Device Info** and select **the Virtual Circuit** to see the connection status.



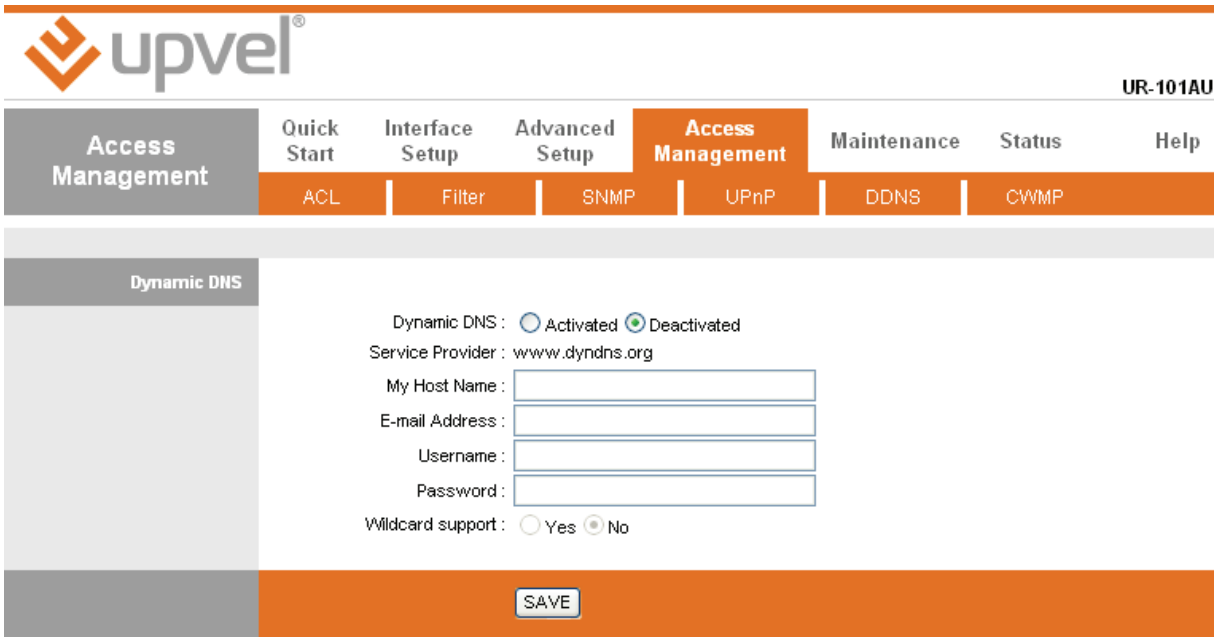
DNS

Go to **Interface -> LAN** to enable DHCP server. Then you can set DNS server for the router. A Domain Name system (DNS) server is like an index of IP addresses
and Web addresses. If you type a Web address into you browser, a DNS server will find that name in its index and find the matching IP address.
Most ISPs provide a DNS server for speed and convenience. Since your Service Provider many connect to the Internet with dynamic IP settings, it is likely that the
DNS server IP addresses are also provided dynamically. However, if there is a DNS server that you would rather use, you need to specify the IP address below.

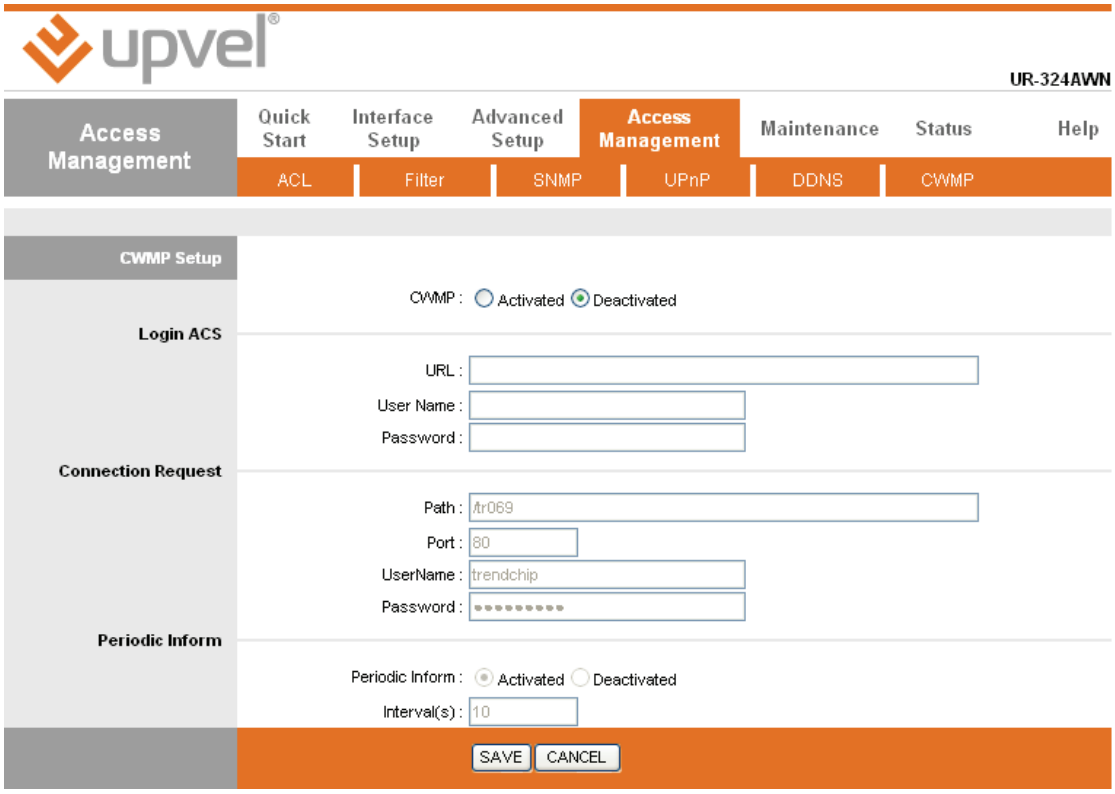


DDNS

Go to **Access Management -> DDNS** to setup your DDNS parameters. Dynamic DNS allows you to update your dynamic IP address with one or many dynamic DNS services. So anyone can access your FTP or Web service on your computer using DNS-like address.



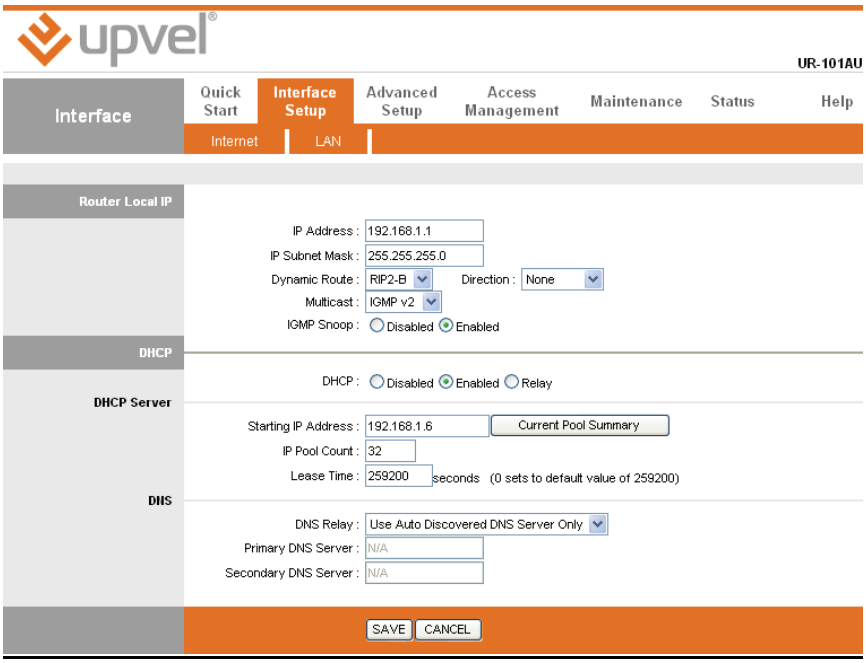
CWMP



Item Name	Description
CWMP	Enable or Disable TR069 function
URL	Type ACS server's URL
User Name	Type ACS server login username
Password	Type ACS server login password
Path	Type the path for Connection request
Port	Type the port for Connection request
Username	Type username for ACS server to make connection request
Password	Type password for ACS server to make connection request
Periodic inform	Enable or Disable Periodic inform
Interval	interval time of Periodic inform (unit second).

LAN Configuration

Go to Interface Setup -> LAN. The 'LAN Settings' option enables you to configure the LAN port.
If the DHCP Relay is selected, the DHCP requests from local PCs are forward to the DHCP server runs on WAN side. To have this function working properly,
disable the NAT to run on router mode only, disable the DHCP server on the LAN port, and make sure the routing table has the correct routing entry.



IP Filtering

Go to **Access Management -> IP Filtering** to block some packets form WAN.The router provides extensive firewall protection by restricting connection parameters to limit the risk of intrusion and defending against a wide array of common hacker attacks. The user can set different IP filter rules of a given protocol(TCP, UDP or ICMP) and a specific direction(incoming, outgoing, or both) to filter the packets.

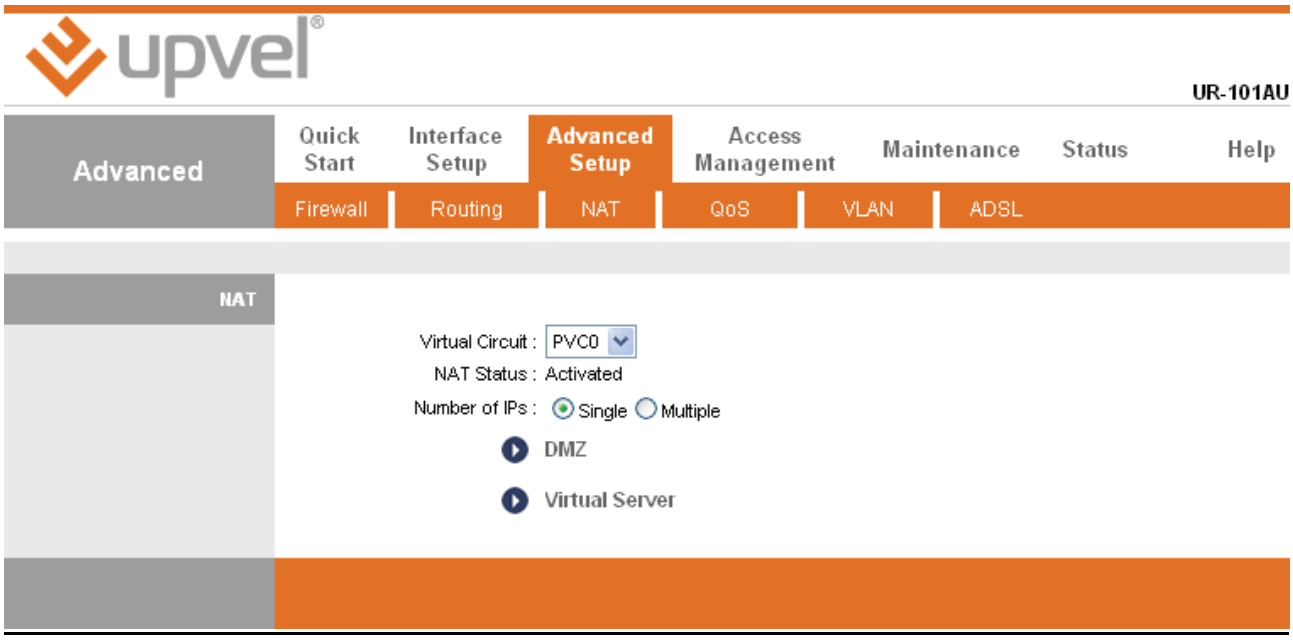
UR-101AU
Access Management
Quick Start
Interface Setup
Advanced Setup
Access Management
Maintenance
Status
Help
ACL
Filter
SNMP
UPnP
DDNS
CWMP
Filter
Filter Type
Filter Type Selection : IP / MAC Filter
IP / MAC Filter Set Editing
IP / MAC Filter Set Index : 1
Interface : PVC0
Direction : Both
IP / MAC Filter Rule Editing
IP / MAC Filter Rule Index : 1
Rule Type : IP
Active : Yes No
Source IP Address : (0.0.0.0 means Don't care)
Subnet Mask :
Port Number : 0 (0 means Don't care)
Destination IP Address : (0.0.0.0 means Don't care)
Subnet Mask :
Port Number : 0 (0 means Don't care)
Protocol : TCP
Rule Unmatched : Forward
IP / MAC Filter Listing
IP / MAC Filter Set Index 1 Interface - Direction -
Active Src Address/Mask Dest IP/Mask Src Port Dest Port Protocol Unmatched
1 - - - - - - -
2 - - - - - - -
3 - - - - - - -
4 - - - - - - -
5 - - - - - - -
6 - - - - - - -
SAVE
DELETE
CANCEL

ACL Setting

Go to **Access Management -> ACL** to enable remote management. The user may remotely access the ADSL Router once setting his IP as a Secure IP Address through selected applications. With the default IP 0.0.0.0, any client would be allowed to remotely access the ADSL Router.

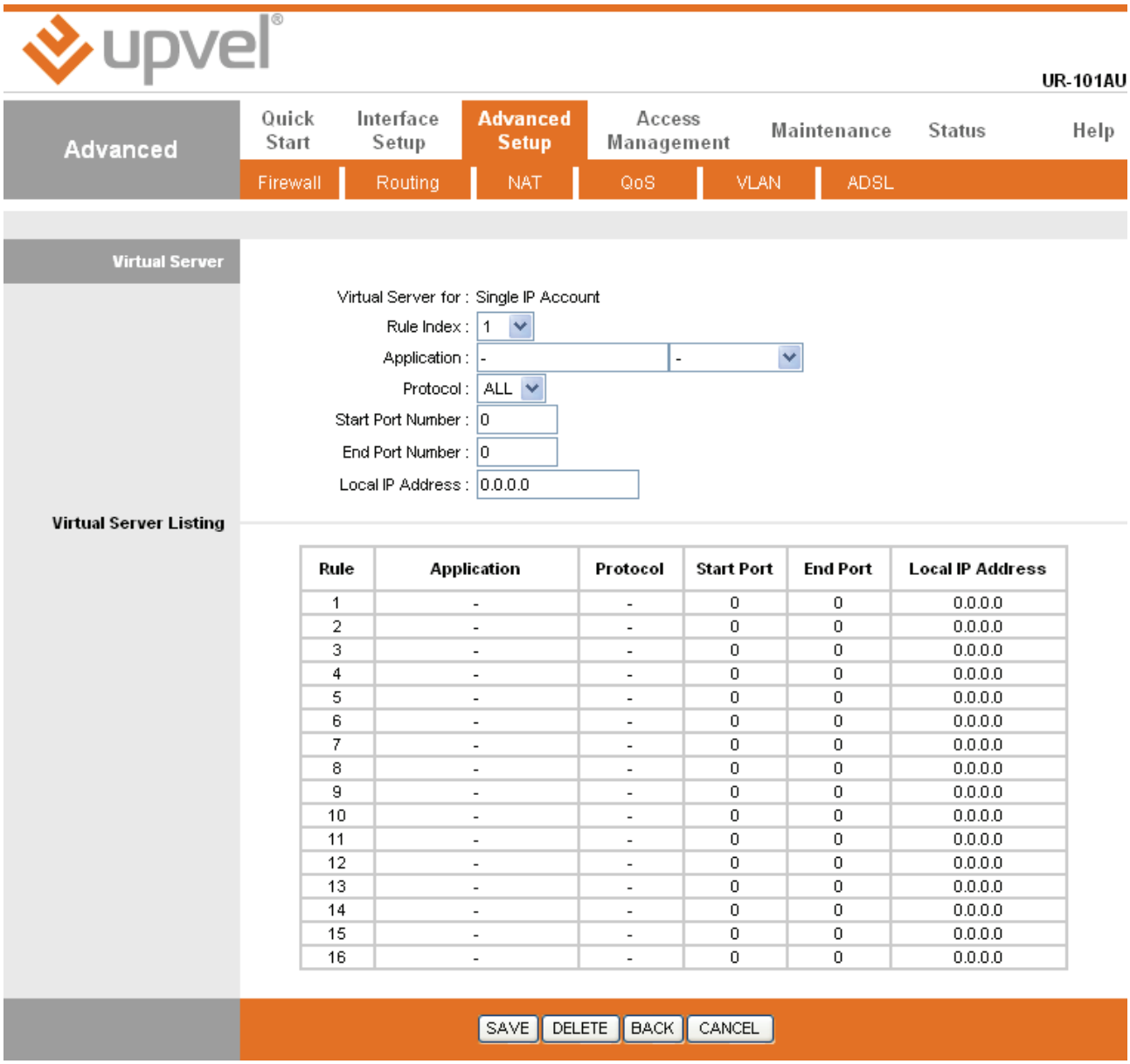
NAT Setting

Go to **Advanced Setup->NAT** to setup the NAT features. Network Address Translation (NAT) allows multiple users at your local site to access the Internet through a single public IP address or multiple public IP addresses. NAT can also prevent hacker attacks by mapping local addresses to public addresses for key services such as the Web or FTP.



Virtual Server

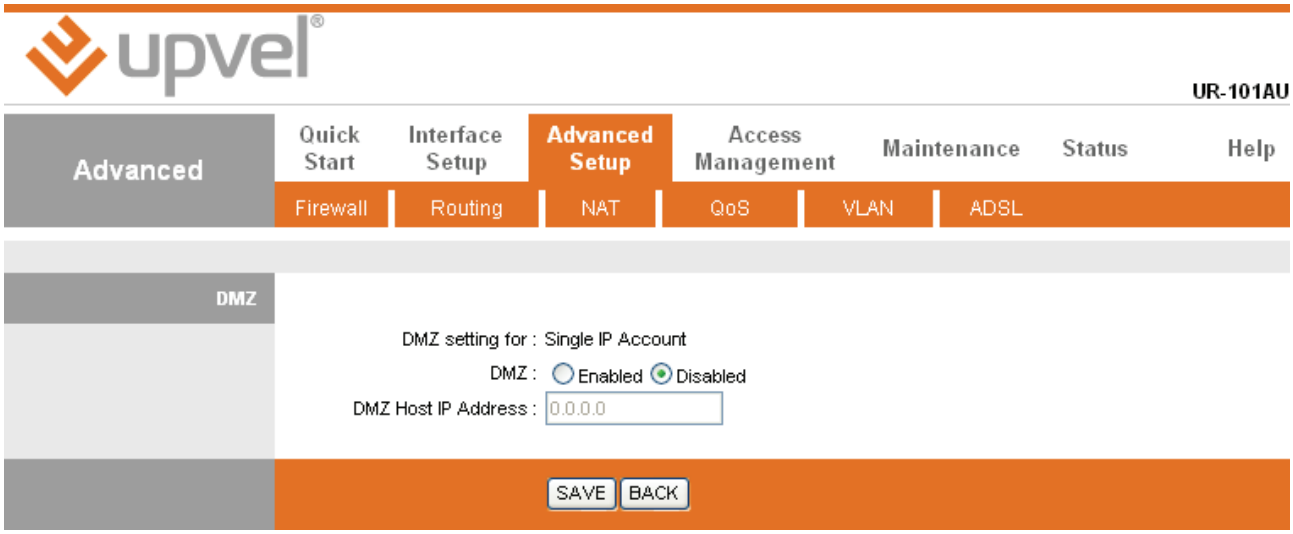
Go to **Advanced Setup** ->**NAT** -> **Virtual Server** to set virtual server as you need.(known as Port Mapping).You can configure the router as a virtual server so that remote users accessing services such as the Web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP addresses. In other words, depending on the requested service (TCP/UDP port numbers), the router redirects the external service request to the appropriate server (located at another internal IP address). For some applications, you need to assign a set or a range of ports (example 4000-5000) to a specified local machine to route the packets. The router allows the user to configure the needed port mappings to suit such applications.



Rule	Application	Protocol	Start Port	End Port	Local IP Address
1	-	-	0	0	0.0.0.0
2	-	-	0	0	0.0.0.0
3	-	-	0	0	0.0.0.0
4	-	-	0	0	0.0.0.0
5	-	-	0	0	0.0.0.0
6	-	-	0	0	0.0.0.0
7	-	-	0	0	0.0.0.0
8	-	-	0	0	0.0.0.0
9	-	-	0	0	0.0.0.0
10	-	-	0	0	0.0.0.0
11	-	-	0	0	0.0.0.0
12	-	-	0	0	0.0.0.0
13	-	-	0	0	0.0.0.0
14	-	-	0	0	0.0.0.0
15	-	-	0	0	0.0.0.0
16	-	-	0	0	0.0.0.0

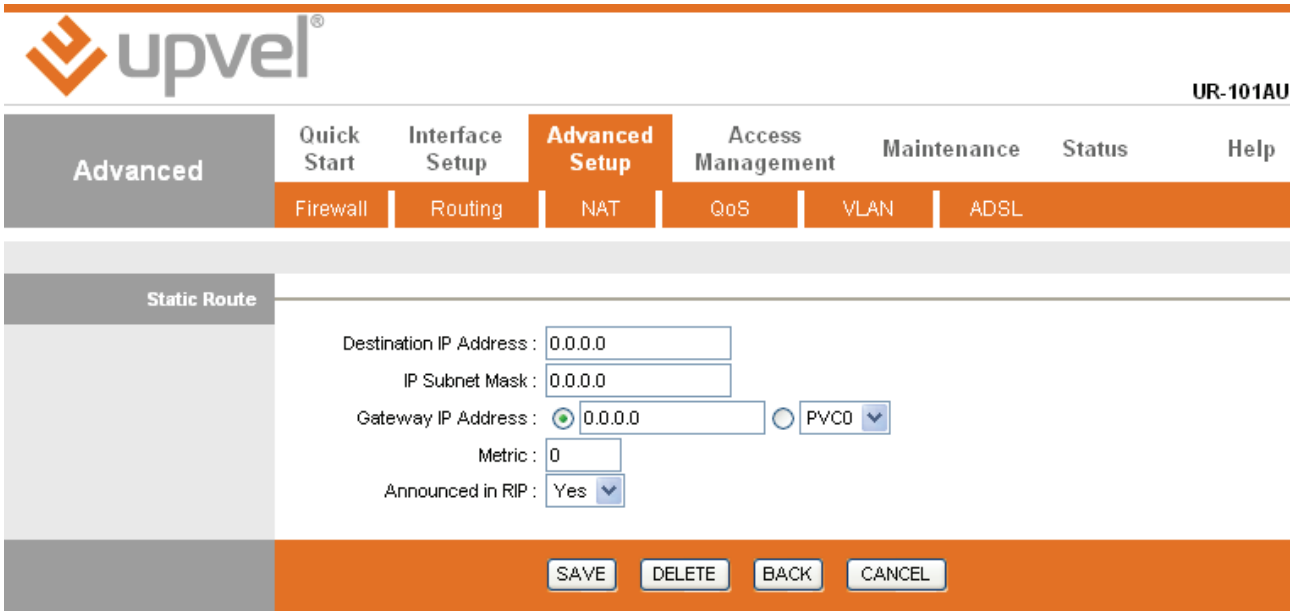
DMZ Setting

Go to **Advanced Setup ->NAT -> DMZ** to set DMZ parameters. If you have a local client PC that cannot run an Internet application properly from behind the NAT firewall, you can open the client up to unrestricted two-way Internet access by defining a virtual DMZ Host.



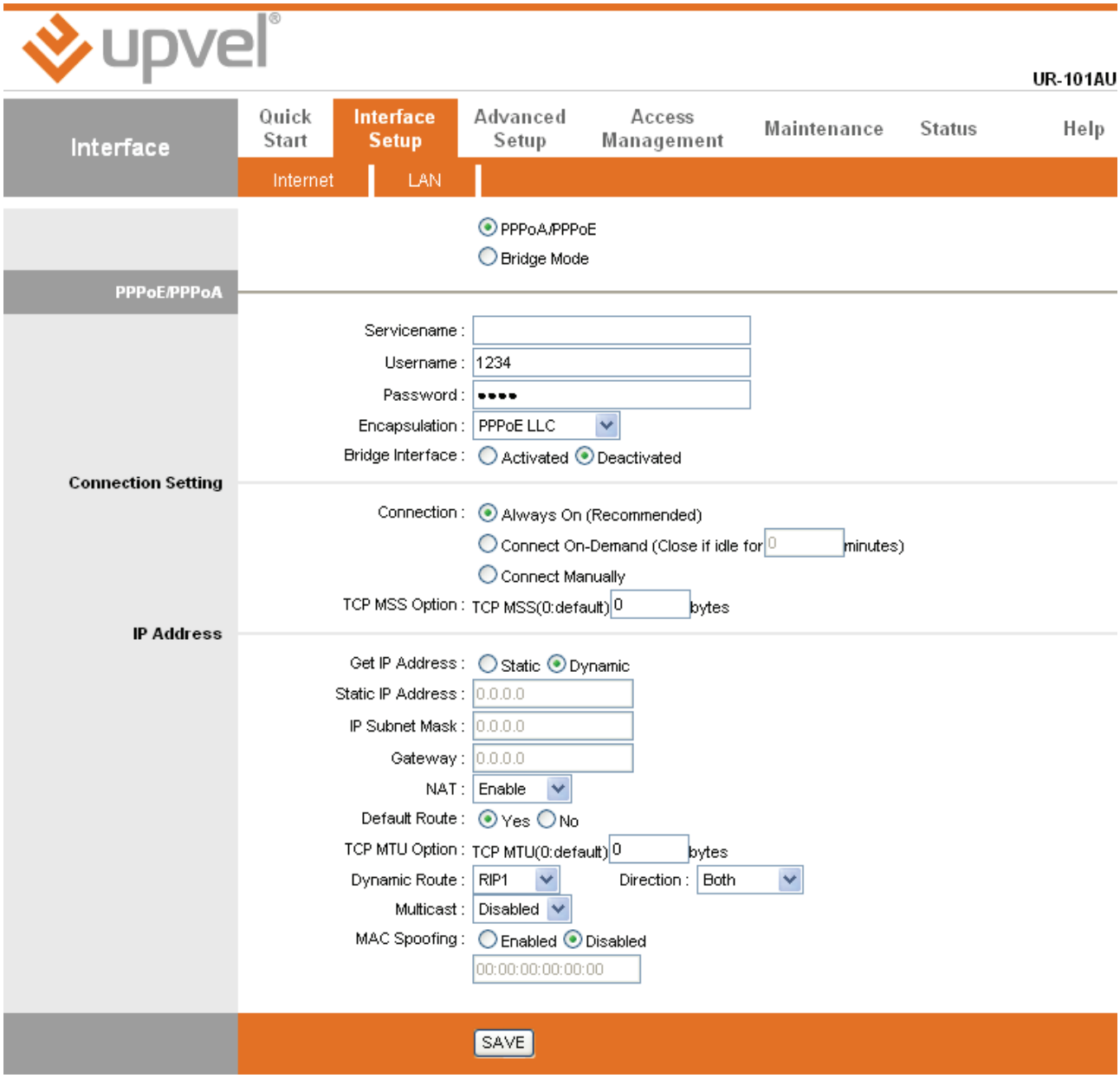
Static Routing

Go to **Advance Setup -> Routing ->Add** to setup static route features.
The static routing function determines the path that router follows over your network before and after it passes through your router. You can use static routing to allow different IP domain users to access the Internet through this device.



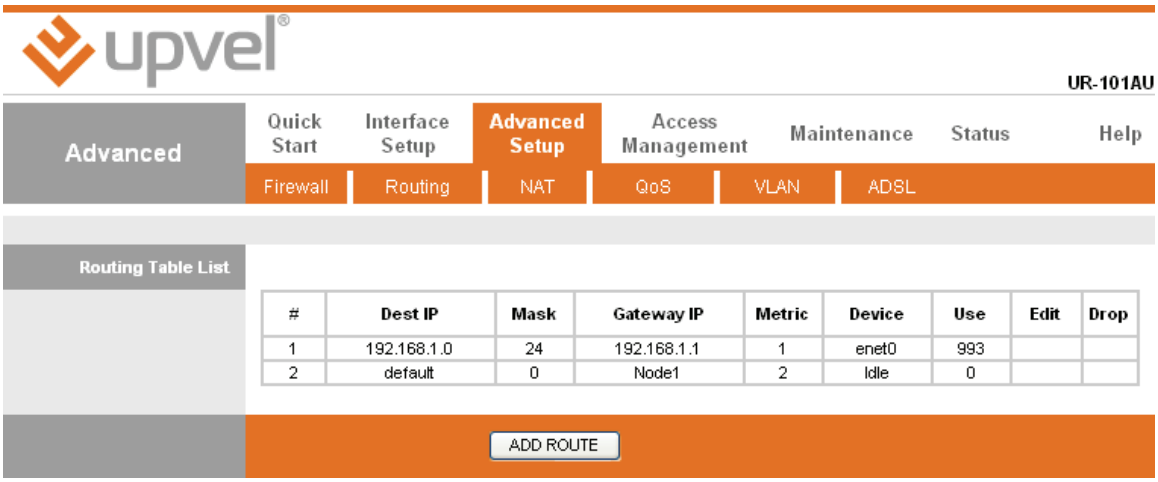
Dynamic Routing

Go to **Interface Setup -> Internet** to select Dynamic Route as you need.
The dynamic routing feature of the router can be used to allow the router to automatically adjust to physical changes in the network's layout. The router uses the dynamic RIP protocol. It determines the route that the network packets take based on the fewest number of hops between the source and the destination. The RIP protocol regularly broadcasts routing information to other routers on the network.



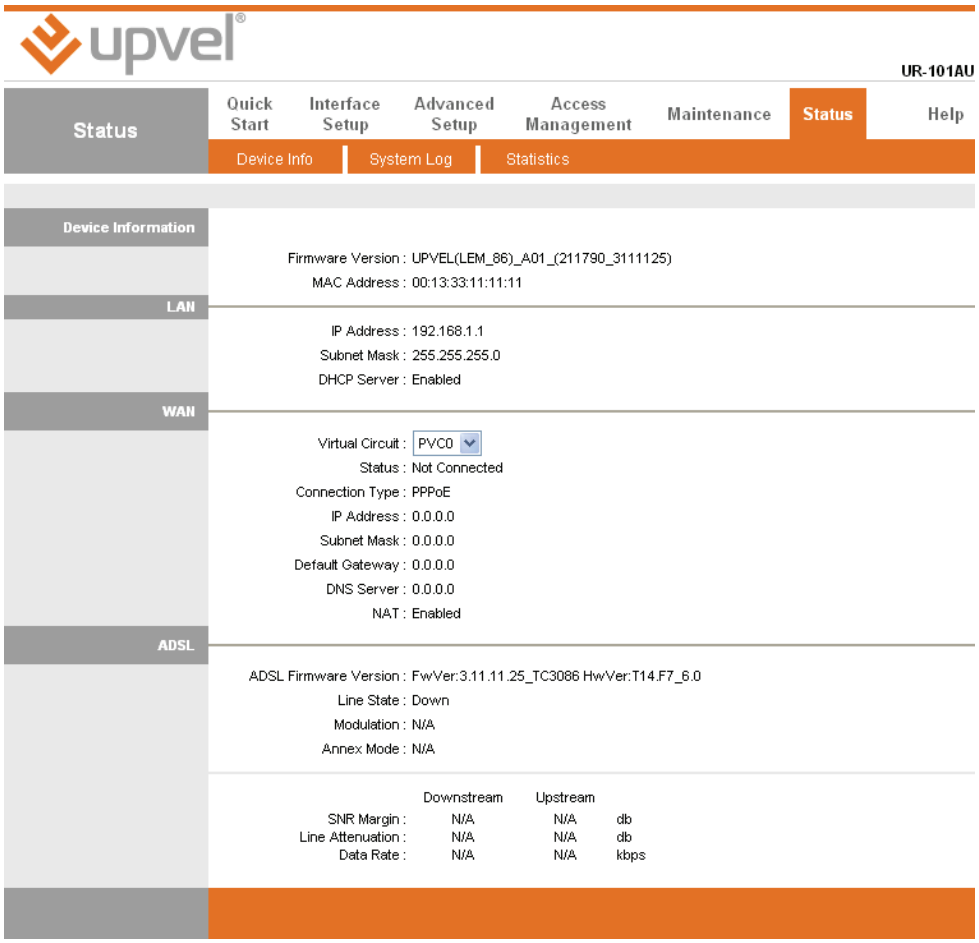
Routing Table

Go to **Advanced Setup -> Routing** to see the Routing Table.The Routing table allows you to see how many routings on your routing table and interface information



System Status

Go to **Status -> Device Info** to see the router's information. The System Status page shows the WAN, LAN and the router's firmware version.



SNMP

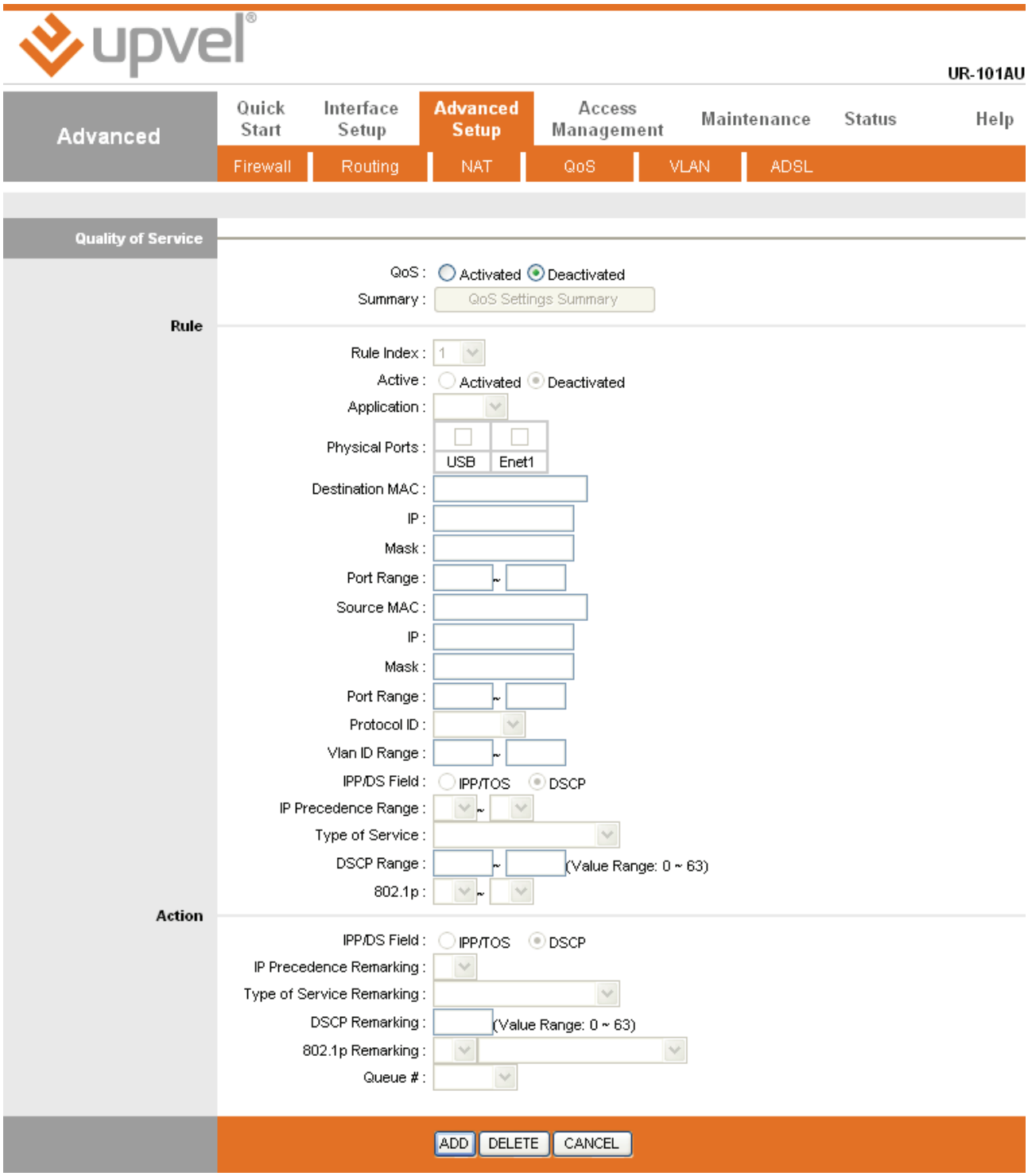
Go to **Access Management -> SNMP** to setup SNMP feature.**S**imple **N**etwork **M**anagement **P**rotocol is used for exchanging information between network device.

Get Community : Select to set the password for the incoming Get- and GetNext requests from the management station.

Set Community : Select to set the password for incoming Set requests from the management station.

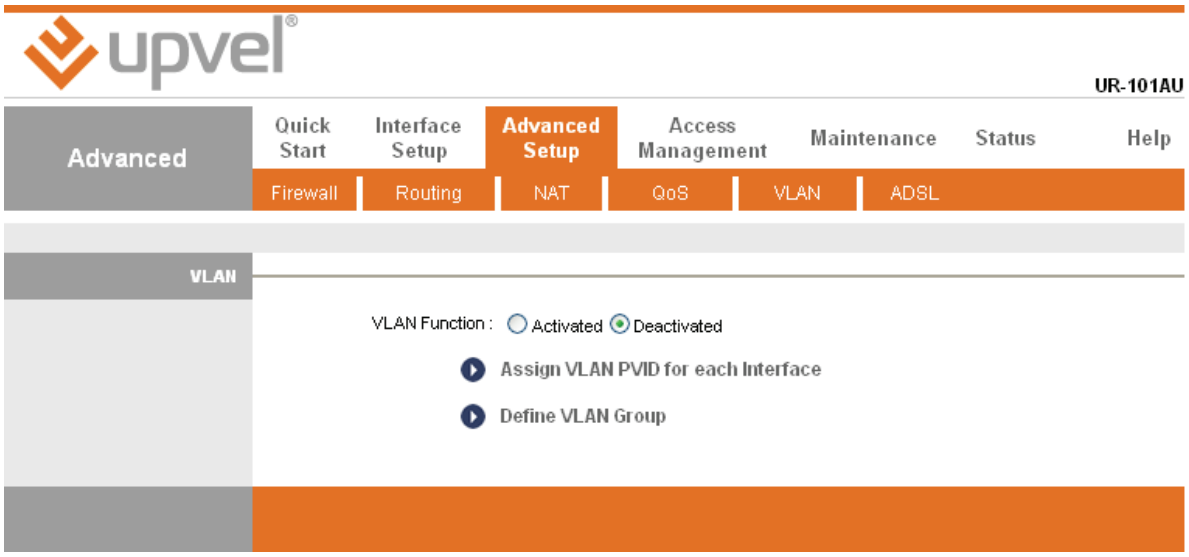
QoS Setting

Go to **Advanced Setup -> QoS** to setup QoS features. This option will provide better service of selected network traffic over various technologies.



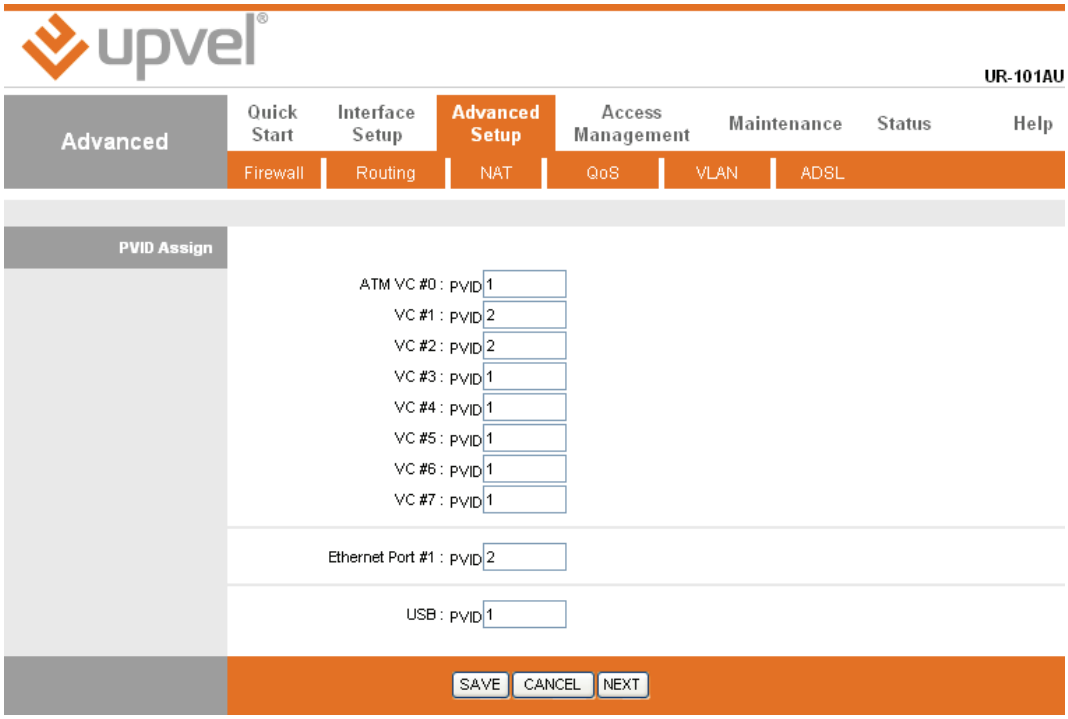
VLAN

Go to **Advanced Setup -> VLAN** to enable VLAN features. Virtual LAN (VLAN) is a group of devices on one or more LANs that are configured so that they can communicate as if they were attached to the same wire, when in fact they are located on a number of different LAN segments. Because VLANs are based on logical instead of physical connections, it is very flexible for user/host management, bandwidth allocation and resource optimization..



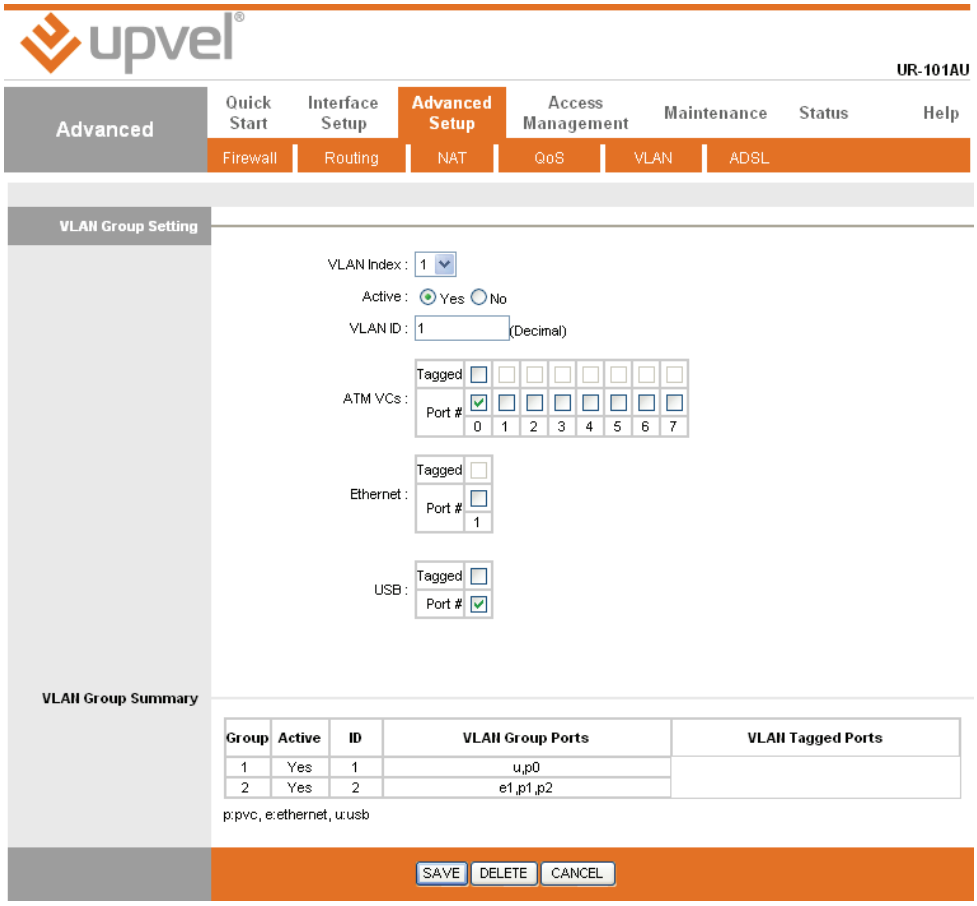
VLAN PVID

Go to **Advanced Setup -> VLAN-> Assign VLAN PVID for each interface** to setup VLAN PVID features. Each physical port has a default VID called PVID (Port VID). PVID is assigned to untagged frames or priority tagged frames (frames with null (0) VID) received on this port.



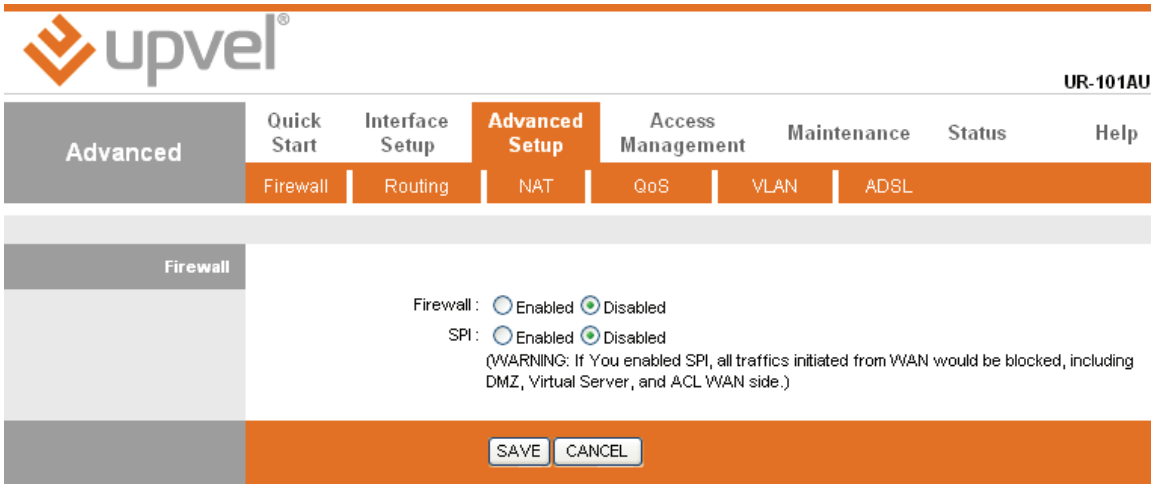
VLAN Group

Go to **Advanced Setup -> VLAN-> Define VLAN Group** to setup VLAN group features.



Firewall

Go to **Advanced Setup ->Firewall** to setup Firewall features. Select this option can automatically detect and block Denial of Service (DoS) attacks, such as Ping of Death, SYN Flood, Port Scan and Land Attack.



11.0 Universal Plug-and-Play (UPnP)

11.1 Universal Plug and Play Overview

Universal Plug and Play (UPnP) is a distributed, open networking standard that uses TCP/IP for simple peer-to-peer network connectivity between devices. An UPnP device can dynamically join a network, obtain an IP address, convey its capabilities and learn about other devices on the network. In turn, a device can leave a network smoothly and automatically when it is no longer in use.

11.2 How do I know if I'm using UPnP?

UPnP hardware is identified as an icon in the Network Connections folder (Windows XP). Each UPnP compatible device installed on your network will appear as a separate icon. Selecting the icon of a UPnP device will allow you to access the information and properties of that device.

11.3 NAT Traversal

UPnP NAT traversal automates the process of allowing an application to operate through NAT. UPnP network devices can automatically configure network addressing, announce their presence in the network to other UPnP devices and enable exchange of simple product and service descriptions. NAT traversal allows the following:

- Dynamic port mapping
- Learning public IP addresses
- Assigning lease times to mappings

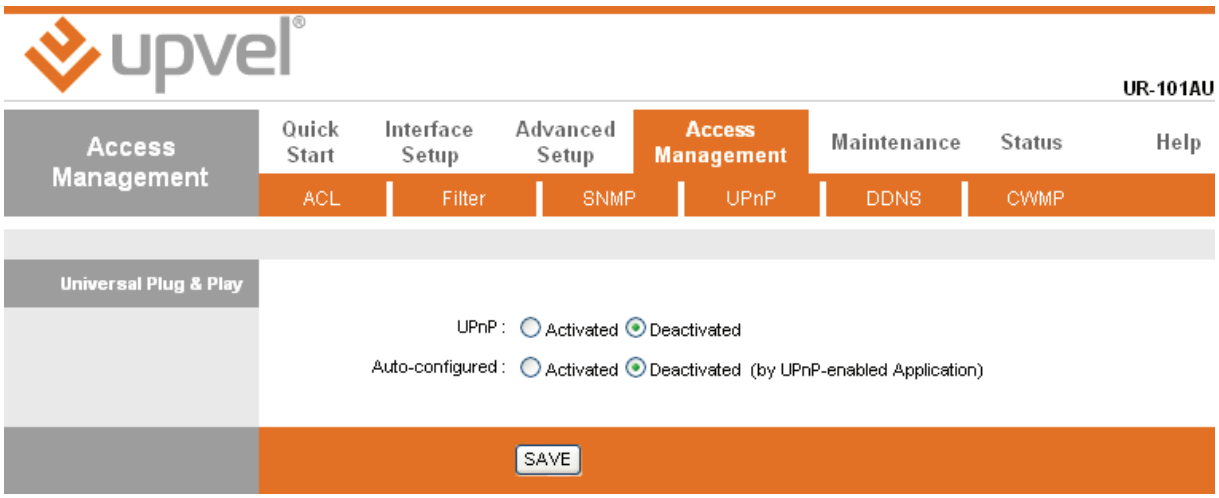
Windows Messenger is an example of an application that supports NAT traversal and UPnP.
See the *Network Address Translation (NAT)* chapter for further information about NAT.

11.4 Cautions with UPnP

The automated nature of NAT traversal applications in establishing their own services may present network security issues. Network information and configuration may also be obtained and modified by users in some network environments.
All UPnP-enabled devices may communicate freely with each other without additional configuration. Disable UPnP if this is not your intention.
UPnP broadcasts are only allowed on the LAN.
See later sections for examples of installing UPnP in Windows XP and Windows Me as well as an example of using UPnP in Windows.

11.5 Configuring UPnP

From the Site Map in the main menu, click UPnP under Access Managemen to display the screen shown next.



The following table describes the labels in this screen.

LABEL	DESCRIPTION
UPnP	Select this checkbox to activate UPnP. Be aware that anyone could use a UPnP application to open the web configuration's login screen without entering ADSL2+ Combo Router's IP address (although you must still enter the password to access the web configuration).
Auto configured	Select this check box to allow UPnP-enabled applications to automatically configure ADSL2+ Combo Router so that they can communicate through ADSL2+ Combo Router, for example by using NAT traversal, UPnP applications automatically reserve a NAT forwarding port in order to communicate with another UPnP enabled device; this eliminates the need to manually configure port forwarding for the UPnP enabled application.
Apply	Click **Apply** to save your settings back to home screen.

11.6 Installing UPnP in Windows Example

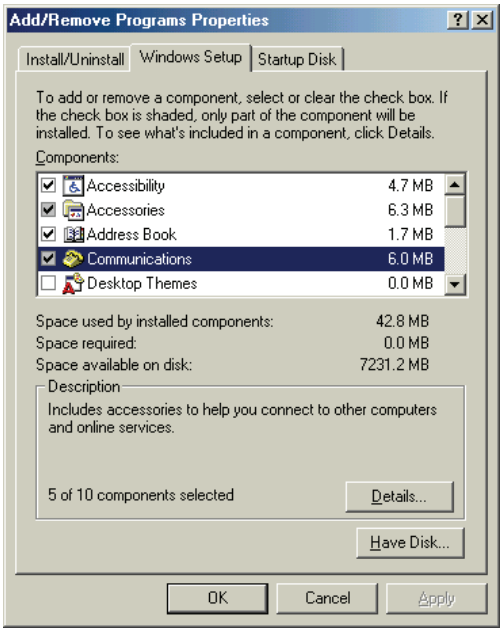
This section shows how to install UPnP in Windows Me and Windows XP.

11.7 Installing UPnP in Windows Me

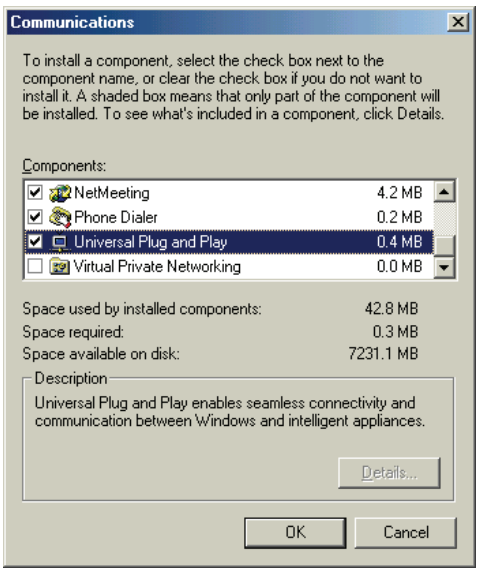
Follow the steps below to install the UPnP in Windows Me.

Step 1. Click Start and Control Panel. Double-click Add/Remove Programs.

Step 2. Click on the Windows Setup tab and select Communication in the Components selection box. Click Details.


Add/Remove Programs Properties
Install/Uninstall
Windows Setup
Startup Disk
To add or remove a component, select or clear the check box. If the check box is shaded, only part of the component will be installed. To see what's included in a component, click Details.
Components:
Accessibility 4.7 MB
Accessories 6.3 MB
Address Book 1.7 MB
Communications 6.0 MB
Desktop Themes 0.0 MB
Space used by installed components: 42.8 MB
Space required: 0.0 MB
Space available on disk: 7231.2 MB
Description
Includes accessories to help you connect to other computers and online services.
5 of 10 components selected
Details...
Have Disk...
OK
Cancel
Apply

Step 3. In the Communications window, select the Universal Plug and Play check box in the Components selection box.

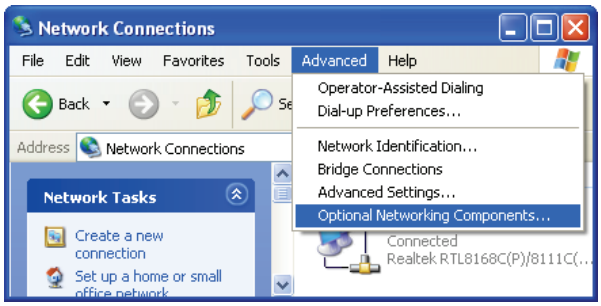

Communications
To install a component, select the check box next to the component name, or clear the check box if you do not want to install it. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
NetMeeting 4.2 MB
Phone Dialer 0.2 MB
Universal Plug and Play 0.4 MB
Virtual Private Networking 0.0 MB
Space used by installed components: 42.8 MB
Space required: 0.3 MB
Space available on disk: 7231.1 MB
Description
Universal Plug and Play enables seamless connectivity and communication between Windows and intelligent appliances.
Details...
OK
Cancel

Step 4. Click OK to go back to the Add/Remove Programs Properties window and click Next.

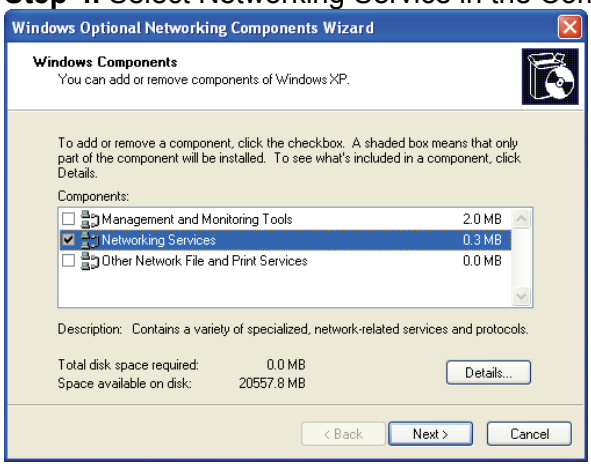
Step 5. Restart the computer when prompted.

11.8 Installing UPnP in Windows XP

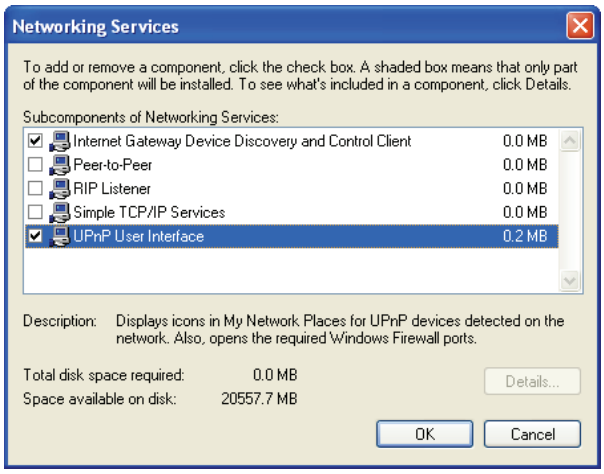
Follow the steps below to install the UPnP in Windows XP.
Step 1. Click Start and Control Panel.
Step 2. Double-click Network Connections.
Step 3. In the Network Connections window, click Advanced in the main menu and select Optional Networking Components ….



The Windows Optional Networking Components Wizard window displays.
Step 4. Select Networking Service in the Components selection box and click Details.


Windows Optional Networking Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Management and Monitoring Tools 2.0 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 0.0 MB
Space available on disk: 20557.8 MB
Details...
< Back
Next >
Cancel

Step 5. In the Networking Services window, select the Universal Plug and Play check box.
Step 6. Click OK to go back to the Windows Optional Networking Component Wizard window and click Next.

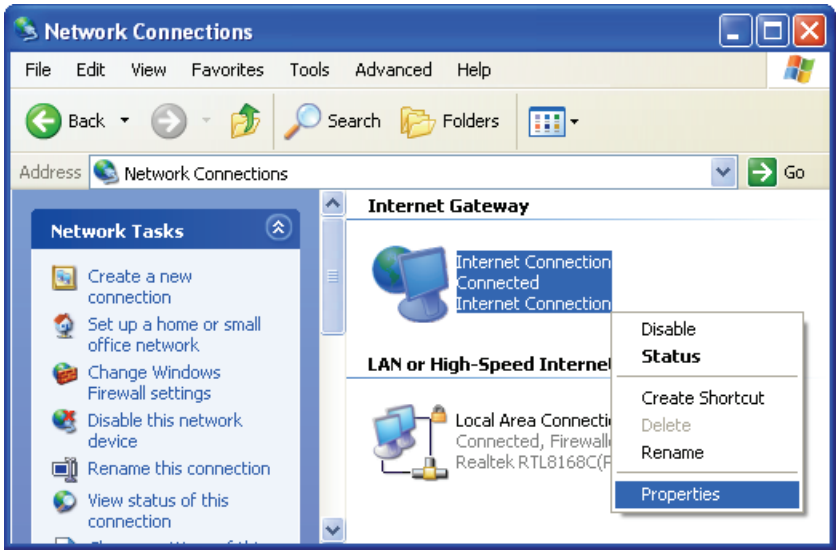

Networking Services
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Networking Services:
Internet Gateway Device Discovery and Control Client 0.0 MB
Peer-to-Peer 0.0 MB
RIP Listener 0.0 MB
Simple TCP/IP Services 0.0 MB
UPnP User Interface 0.2 MB
Description: Displays icons in My Network Places for UPnP devices detected on the network. Also, opens the required Windows Firewall ports.
Total disk space required: 0.0 MB
Space available on disk: 20557.7 MB
Details...
OK
Cancel

11.9 Using UPnP in Windows XP Example

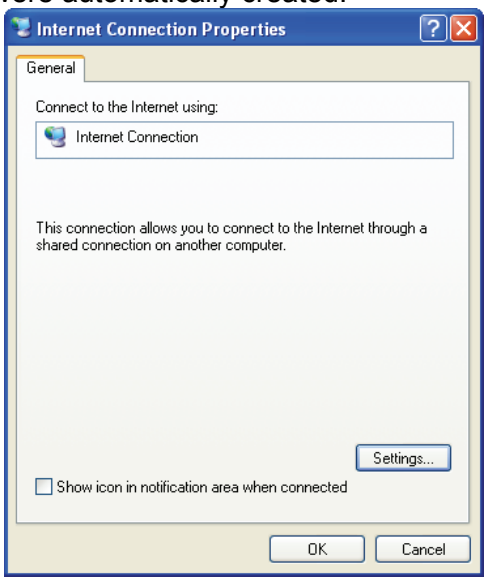
This section shows you how to use the UPnP feature in Windows XP. You must already have UPnP installed in Windows XP and UPnP activated on ADSL2+ Combo Router.
Make sure the computer is connected to a LAN port of ADSL2+ Combo Router. Turn on your computer and ADSL2+ Combo Router.

11.10 Auto-discover Your UPnP-enabled Network Device

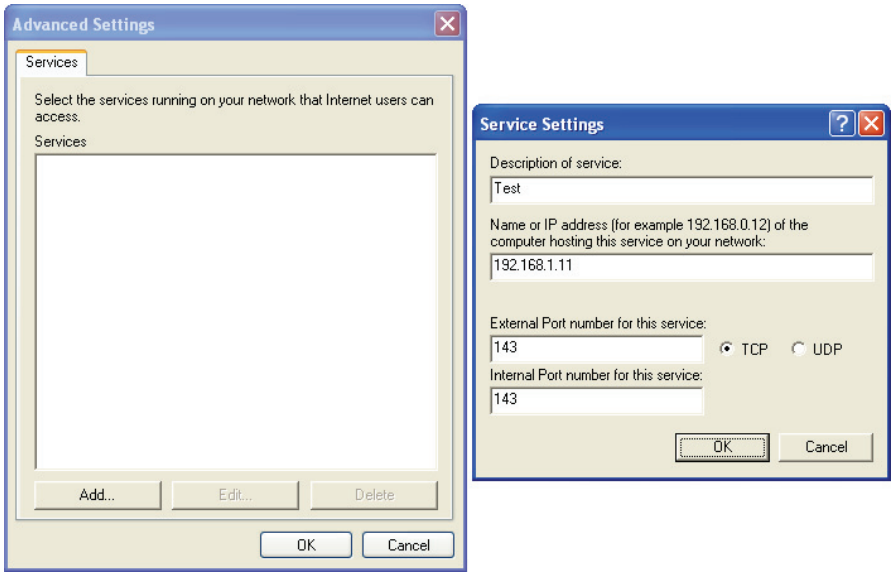
Step 1. Click start and Control Panel. Double-click Network Connections. An icon displays under Internet Gateway.
Step 2. Right-click the icon and select Properties.



Step 3. In the Internet Connection Properties window, click Settings to see the port mappings there were automatically created.

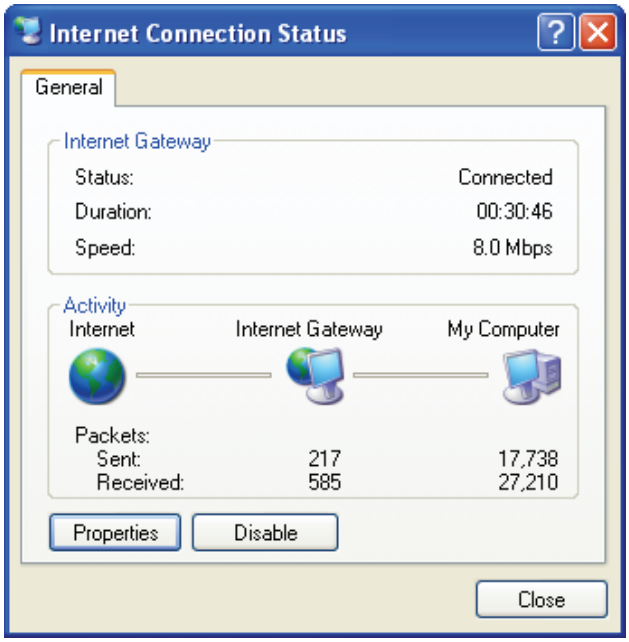

Internet Connection Properties
General
Connect to the Internet using:
Internet Connection
This connection allows you to connect to the Internet through a shared connection on another computer.
Settings...
Show icon in notification area when connected
OK
Cancel

Step 4. You may edit or delete the port mappings or click Add to manually add port mappings.



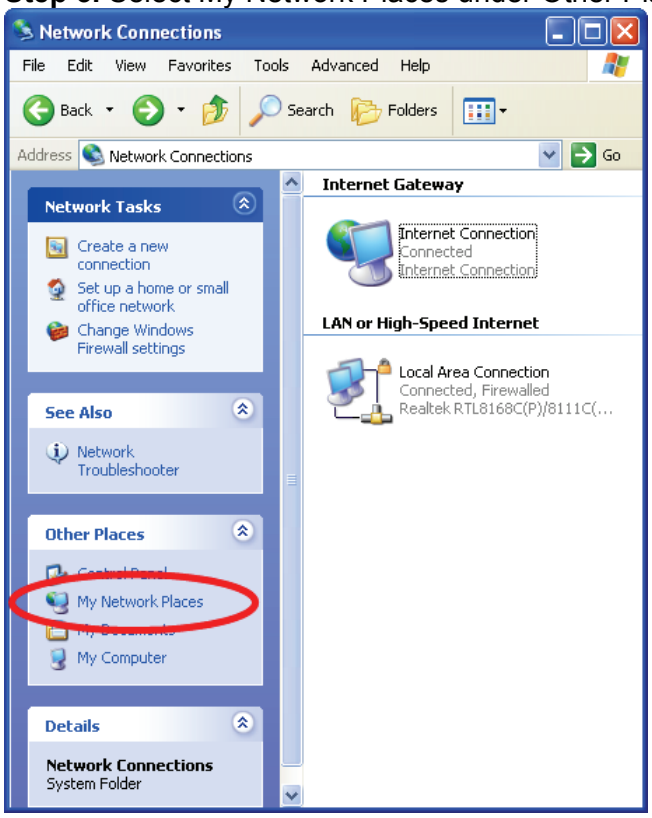
Step 5. Select Show icon in notification area when connected option and click OK. An icon displays in the system tray

Step 6. Double-click on the icon to display your current Internet connection status.

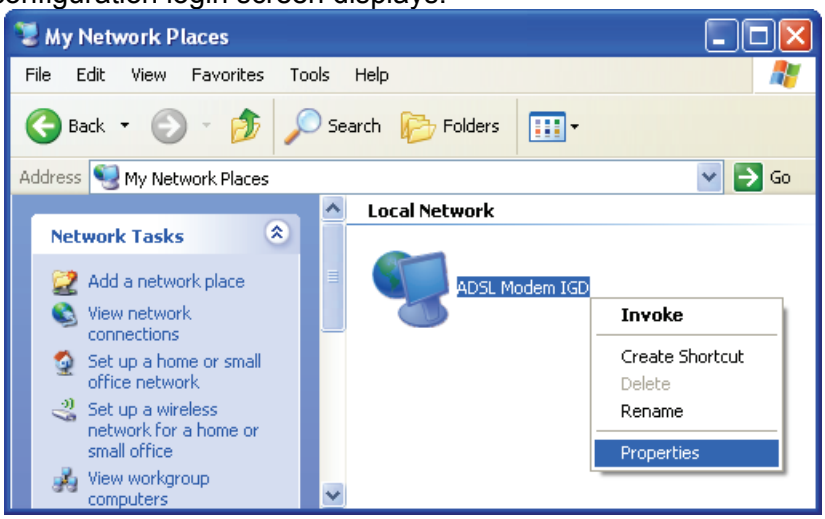


12.0 Web Configuration Easy Access

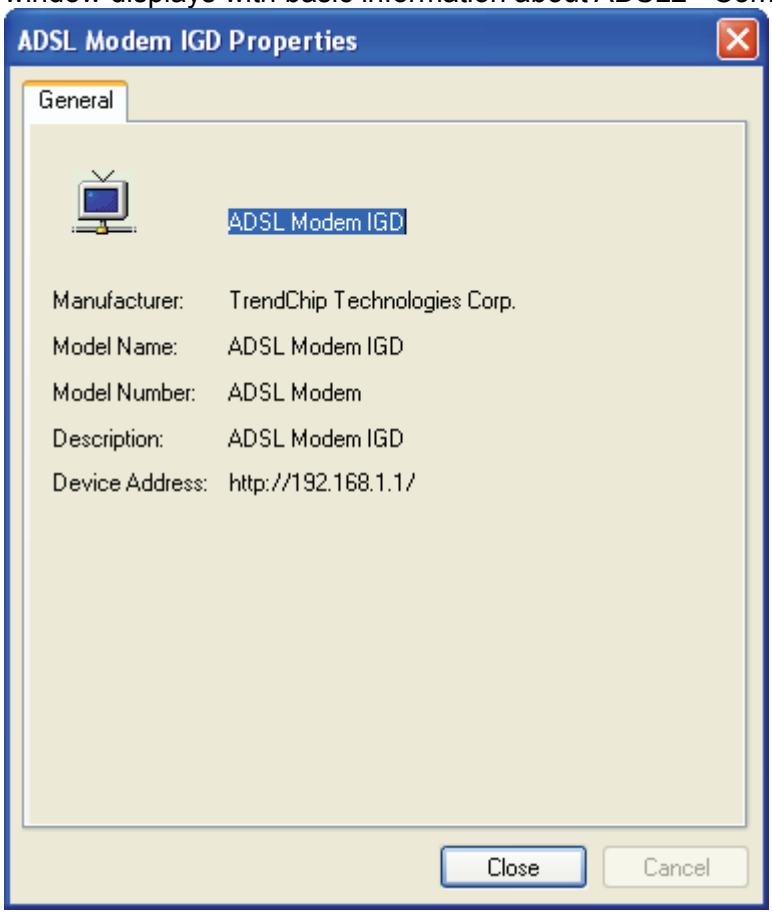
With UPnP, you can access the web-based configuration on ADSL2+ Combo Router without finding out the IP address of ADSL2+ Combo Router first. This comes helpful if you do not know the IP address of ADSL2+ Combo Router.
Follow the steps below to access the web configuration.
Step 1. Click Start and then Control Panel.
Step 2. Double-click Network Connections.
Step 3. Select My Network Places under Other Places.



Step 4. An icon with the description for each UPnP-enabled device displays under Local Network.
Step 5. Right-click on the icon for yourADSL2+ Combo Router and select Invoke. The web configuration login screen displays.



Step 6. Right-click on the icon for yourADSL2+ Combo Router and select Properties. A properties window displays with basic information about ADSL2+ Combo Router.



13.0 Troubleshooting

A.1 Using LEDs to Diagnose Problems

The LEDs are useful aides for finding possible problem causes.

A.1.1 Power LED

The PWR LED on the front panel does not light up.

STEPS	CORRECTIVE ACTION
1	Make sure that ADSL2+ Combo Router's power adaptor is connected to ADSL2+ Combo Router and plugged in to an appropriate power source. Use only the supplied power adaptor.
2	Check that ADSL2+ Combo Router and the power source are both turned on and ADSL2+ Combo Router is receiving sufficient power.
3	Turn the ADSL2+ Combo Router off and on.
4	If the error persists, you may have a hardware problem. In this case, you should contact your vendor.

A.1.2 LAN LED

The LAN LED on the front panel does not light up.

STEPS	CORRECTIVE ACTION
1	Check the Ethernet cable connections between your ADSL2+ Combo Router and the computer or hub.
2	Check for faulty Ethernet cables.
3	Make sure your computer's Ethernet card is working properly.
4	If these steps fail to correct the problem, contact your local distributor for assistance.

A.1.3 DSL LED (ACT & LINK)

The DSL LED on the front panel does not light up.

STEPS	CORRECTIVE ACTION
1	Check the telephone wire and connections between ADSL2+ Combo Router DSL port and the wall jack.
2	Make sure that the telephone company has checked your phone line and set it up for DSL service.
3	Reset your ADSL line to reinitialize your link to the DSLAM.
4	If these steps fail to correct the problem, contact your local distributor for assistance.

A.2 Telnet

I cannot telnet into ADSL2+ Combo Router.

STEPS	CORRECTIVE ACTION
1	Check the LAN port and the other Ethernet connections.
2	Make sure you are using the correct IP address of ADSL2+ Combo Router. Check the IP address of ADSL2+ Combo Router.
3	Ping ADSL2+ Combo Router from your computer. If you cannot ping ADSL2+ Combo Router, check the IP addresses of ADSL2+ Combo Router and your computer. Make sure your computer is set to get a dynamic IP address; or if you want to use a static IP address on your computer, make sure that it is on the same subnet as ADSL2+ Combo Router.
4	Make sure you entered the correct password. The default password is “1234”.
5	If these steps fail to correct the problem, contact the distributor.

A.3 Web Configuration

I cannot access the web configuration.

STEPS	CORRECTIVE ACTION
1	Make sure you are using the correct IP address of ADSL2+ Combo Router. Check the IP address of ADSL2+ Combo Router.
2	Make sure that there is not a console session running.
3	Check that you have enabled web service access. If you have configured a secured client IP address, your computer’s IP address must match it.
4	For WAN access, you must configure remote management to allow server access from the Wan (or all).
5	Your computer’s and ADSL2+ Combo Router’s IP addresses must be on the same subnet for LAN access.
6	If you changed ADSL2+ Combo Router’s LAN IP address, then enter the new one as the URL.
7	Remove any filters in LAN or WAN that block web service.

The web configuration does not display properly.

STEPS	CORRECTIVE ACTION
1	Make sure you are using Internet Explorer 5.0 and later versions.
2	Delete the temporary web files and log in again. In Internet Explorer, click **Tools**, **Internet Options** and then click the **Delete Files ...** button. When a **Delete Files** window displays, select **Delete all offline content** and click **OK**. (Steps may vary depending on the version of your Internet browser.)

A.4 Login Username and Password

I forgot my login username and/or password.

STEPS	CORRECTIVE ACTION
1	If you have changed the password and have now forgotten it, you will need to upload the default configuration file. This will erase all custom configurations and restore all of the factory defaults including the password.
2	Press the **RST** button for five seconds, and then release it. When the **LINK** LED begins to blink, the defaults have been restored and ADSL2+ Combo Router restarts.
3	The default username is “admin”. The default password is “1234”. The **Password** and **Username** fields are case-sensitive. Make sure that you enter the correct password and username using the proper casing.
4	It is highly recommended to change the default username and password. Make sure you store the username and password in a save place.

A.5 LAN Interface

I cannot access ADSL2+ Combo Router from the LAN or ping any computer on the LAN.

STEPS	CORRECTIVE ACTION
1	Check the Ethernet LEDs on the front panel. A LAN LED should be on if the port is connected to a computer or hub. If the LAN LEDs on the front panel are off, refer to *Section A.1.2*.
2	Make sure that the IP address and the subnet mask of ADSL2+ Combo Router and your computer(s) are on the same subnet.

A.6 WAN Interface

Initialization of the ADSL connection failed.

STEPS	CORRECTIVE ACTION
1	Check the cable connections between the ADSL port and the wall jack. The DSL LEDs on the front panel of ADSL2+ Combo Router should be on.
2	Check that your VPI, VCI, type of encapsulation and type of multiplexing settings are the same as what you collected from your telephone company and ISP.
3	Restart ADSL2+ Combo Router. If you still have problems, you may need to verify your VPI, VCI, type of encapsulation and type of multiplexing settings with the telephone company and ISP.

I cannot get a WAN IP address from the ISP.

STEPS	CORRECTIVE ACTION
1	The ISP provides the WAN IP address after authenticating you. Authentication may be through the user name and password, the MAC address or the host name.
2	The username and password apply to PPPoE and PPoA encapsulation only. Make sure that you have entered the correct **Service Type**, **User Name** and **Password** (be sure to use the correct casing).

A.7 Internet Access

I cannot access the Internet.

STEPS	CORRECTIVE ACTION
1	Make sure ADSL2+ Combo Router is turned on and connected to the network.
2	If the DSL LEDs are off, refer to *Section A.1.3*.
3	Verify your WAN settings.
4	Make sure you entered the correct user name and password.

.

Internet connection disconnects.

STEPS	CORRECTIVE ACTION
1	Check the schedule rules.
2	If you use PPPoA or PPPoE encapsulation, check the idle time-out setting.
3	Contact your ISP.

A.8 Remote Node Connection

I cannot connect to a remote node or ISP.

STEPS	CORRECTIVE ACTION
1	Check WAN screen to verify that the username and password are entered properly.
2	Verify your login name and password for the remote node.
3	If these steps fail, you may need to verify your login and password with your ISP.